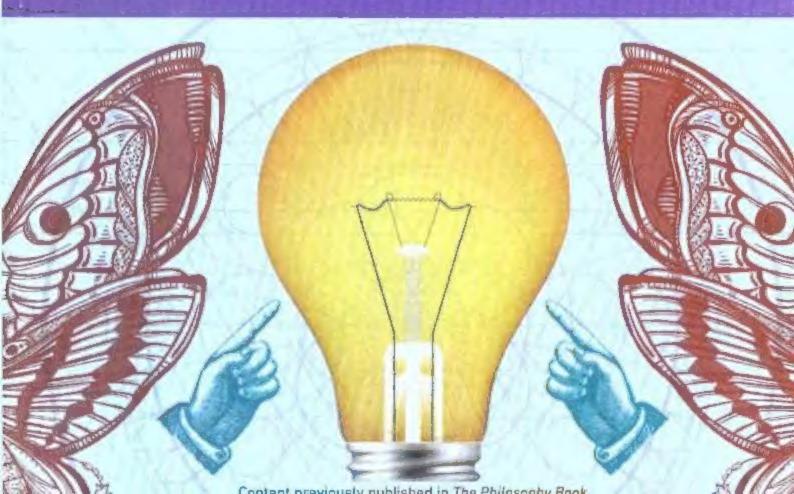
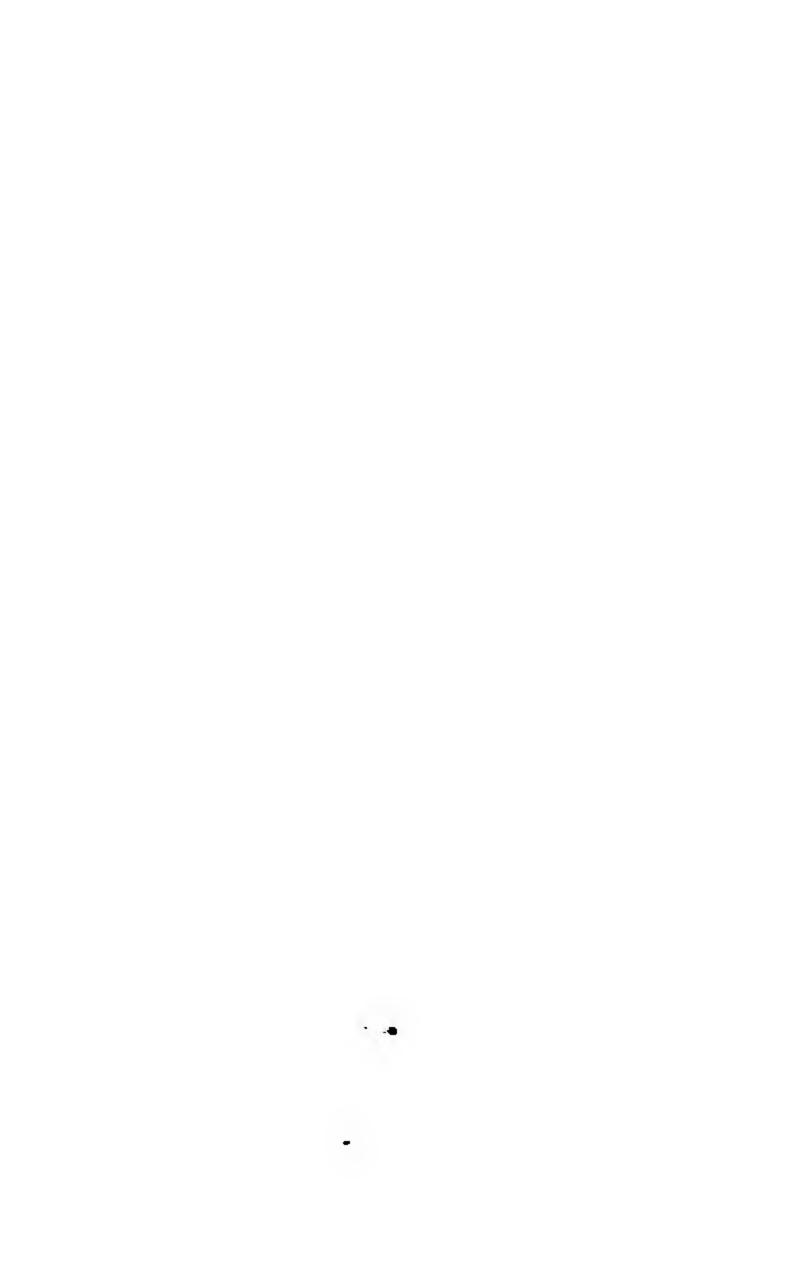


ELITTLE BOOK OF PHILOSOPHY





ELITTLE BOOK OF PHILOSOPHY





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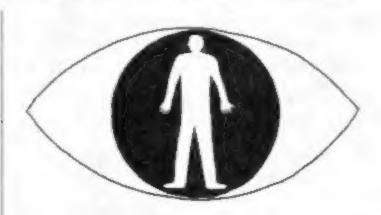
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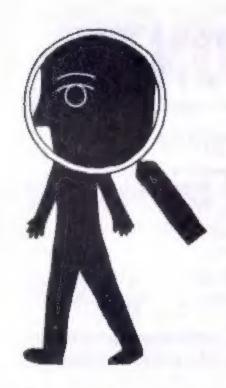
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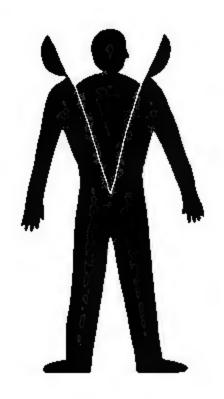
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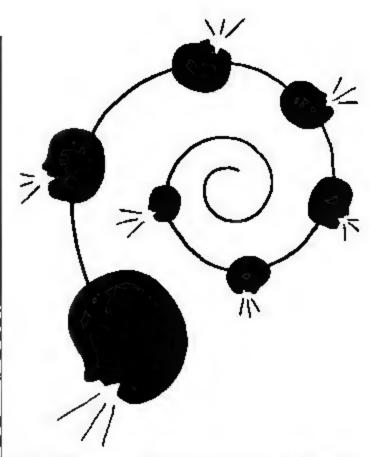
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TRODU

hilosophy is not just the preserve of brilliant but eccentric thinkers that it is popularly supposed to be. It is what everyone does when they're not busy dealing with their everyday business and get a chance simply to wonder what life and the universe are all about. We human beings are naturally inquisitive creatures, and can't help wondering about the world around us and our place in it. We're also equipped with a powerful intellectual capability. which allows us to reason as well as just wonder. Although we may not realize it, whenever we reason, we're thinking philosophically.

Philosophy is not so much about coming up with the answers to fundamental questions as it is about the process of trying to find these answers, using reasoning rather than accepting without question conventional views or traditional authority. The very first philosophers, in ancient Greece and

Wonder is very much the affection of a philosopher; for there is no other beginning of philosophy than this.

Plato

China, were thinkers who were not satisfied with the established explanations provided by religion and custom, and sought answers which had rational justifications. And, just as we might share our views with friends and colleagues, they discussed their ideas with one another, and even set up "schools" to teach not just the conclusions they had come to, but the way they had come to them. They encouraged their students to disagree and criticize ideas as a means of refining them and coming up with new and different ones. A popular misconception is that of the solitary philosopher arriving at his conclusions in isolation, but this is actually seldom the case. New ideas emerge through discussion and the examination, analysis, and criticism of other people's ideas.

Debate and dialogue

The archetypical philosopher in this respect was Socrates. He didn't leave any writings, or even any big ideas as the conclusions of his thinking. Indeed, he prided himself on being the wisest of men because he knew he didn't know anything. His legacy lay in the tradition he established of debate and discussion, of questioning the assumptions of other people to gain deeper understanding and elicit fundamental truths. The writings of Socrates' pupil, Plato, are almost invariably in the form of dialogues.

with Socrates as a major character.

Many later philosophers also adopted the device of dialogues to present their ideas, giving arguments and counterarguments rather than a simple statement of their reasoning and conclusions.

The philosopher who presents his ideas to the world is liable to be met with comments beginning "Yes, but ..." or "What if ..." rather than wholehearted acceptance. In fact, philosophers have fiercely disagreed with one another about almost every aspect of philosophy. Plato and his pupil Aristotle, for example, held diametrically opposed views on fundamental philosophical questions, and their different approaches have divided opinions among philosophers ever since. This has, in turn, provoked more discussion and prompted yet more fresh ideas.

But how can it be that these philosophical questions are still being discussed and debated? Why haven't thinkers come up with definitive answers? What are these "fundamental questions" that philosophers through the ages have wrestled with?

Existence and knowledge

When the first true philosophers appeared in ancient Greece some 2,500 years ago, it was the world around them that inspired their sense of wonder. They saw the Earth and all the different forms

Superstition sets the whole world in flames; philosophy quenches them.

Voltaire



of life inhabiting it: the sun, moon, planets, and stars; and natural phenomena such as the weather, earthquakes, and eclipses. They sought explanations for all these things—not the traditional myths and legends about the gods, but something that would satisfy their curiosity and their intellect. The first question that occupied these early philosophers was "What is the universe made of?", which was soon expanded to become the wider question of "What is the nature of whatever it is that exists?"

This is the branch of philosophy we now call metaphysics. Although much of the original question has since been explained by modern science, related questions of metaphysics such as "Why is there something rather than nothing?" are not so simply answered.

Because we, too, exist as a part of the universe, metaphysics also considers the nature of human existence and what it means to be a conscious being. How do we »



perceive the world around us, and do things exist independently of our perception? What is the relationship between our mind and body, and is there such a thing as an immortal soul? The area of metaphysics concerned with questions of existence, ontology, is a huge one and forms the basis for much of Western philosophy.

Once philosophers had started to put received wisdom to the test of rational examination, another fundamental question became obvious: "How can we know?" The study of the nature and limits of knowledge forms a second main branch of philosophy, epistemology.

At its heart is the question of how we acquire knowledge, how we come to know what we know; is some (or even all) knowledge innate, or do we learn everything from experience? Can we know something from reasoning alone? These questions are vital to philosophical thinking, as we need to be able to rely on our knowledge in order to reason correctly.

O philosophy, life's guide! O searcher-out of virtue and expeller of vices! What could we and every age of men have been without thee?

Cicero 99

We also need to determine the scope and limits of our knowledge. Otherwise we cannot be sure that we actually do know what we think we know, and haven't somehow been "tricked" into believing it by our senses.

Logic and language

Reasoning relies on establishing the truth of statements, which can then be used to build up a train of thought leading to a conclusion. This might seem obvious to us now, but the idea of constructing a rational argument distinguished philosophy from the superstitions and religious explanations that had existed before the first philosophers. These thinkers had to devise a way of ensuring their ideas had validity. What emerged from their thinking was logic, a technique of reasoning that was gradually refined over time. At first simply a useful tool for analyzing whether an argument held water, logic developed rules and conventions, and soon became a field of study in its own right, another branch of the expanding subject of philosophy.

Like so much of philosophy, logic has intimate connections with science, and mathematics in particular. The basic structure of a logical argument, starting from a premise and working through a series of steps to a conclusion, is the same as that of a mathematical proof. It's not surprising then that philosophers have often turned to





There is nothing either good or bad, but thinking makes it so.

> William Shakespeare



mathematics for examples of selfevident, incontrovertible truths, nor that many of the greatest thinkers, from Pythagoras to Rene Descartes and Gottfried Leibniz, were also accomplished mathematicians.

Although logic might seem to be the most exact and "scientific" branch of philosophy, a field where things are either right or wrong a closer look at the subject shows that it is not so simple. Advances in mathematics in the 19th century called into question the rules of logic that had been laid down by Aristotle but even in ancient times Zeno of Elea's famous paradoxes reached absurd conclusions from apparently faultless arguments

A large part of the problem is that philosophical logic, unlike mathematics, is expressed in words rather than numbers or symbols, and is subject to all the ambiguities and subtleties inherent in language. Constructing a reasoned argument involves using language carefully and accurately. examining our statements and

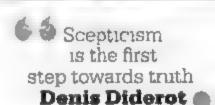
arguments to make sure they mean what we think they mean; and when we study other people's arguments, we have to analyze not only the logical steps they take, but also the language they use. to see if their conclusions hold water Out of this process came yet another field of philosophy that flourished in the 20th century, the philosophy of language, which examined terms and their meanings

Morality, art, and politics

Because our language is imprecise, philosophers have attempted to clarify meanings in their search for answers to philosophical questions. The sort of questions that Socrates asked the citizens of Athens tried to get to the bottom of what they actually believed certain concepts to be. He would ask seemingly simple questions such as "What is justice?" or "What is beauty?" not only to elicit meanings, but also to explore the concepts themselves In discussions of this sort, Socrates challenged assumptions about the way we live our lives and the things we consider to be important

The examination of what it means to lead a "good" life, what concepts such as justice and happiness actually mean and how we can achieve them, and how we should behave, forms the basis for the branch of philosophy known as ethics (or moral philosophy); and the related branch stemming from »





the question of what constitutes beauty and art is known as aesthetics

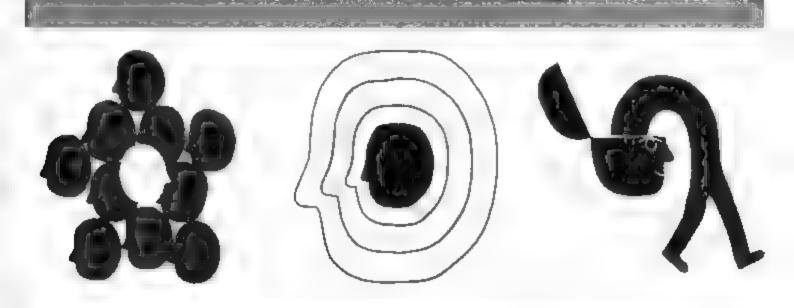
From considering ethical questions about our individual lives, it is a natural step to start thinking about the sort of society we would like to live in—how it should be governed, the rights and responsibilities of its citizens, and so on. Political philosophy, the last of the major branches of philosophy, deals with these ideas, and philosophers have come up with models of how they believe society should be organized, ranging from Plato's Republic to Karl Maix's Communist Manifesto

Religion: East and West

The various branches of philosophy are not only interlinked, but overlap considerably, and it is sometimes difficult to say in which area a particular idea falls. Philosophy also encroaches on many completely different subjects, including the sciences, history, and the arts. With its beginnings in questioning the dogmas of religion and superstition, philosophy also examines religion itself, specifically

asking questions such as "Does god exist?" and 'Do we have an immortal soul?" These are questions that have their roots in metaphysics, but they have implications in ethics too. For example, some philosophers have asked whether our morality comes from god or whether it is a purely human construct—and this in turn has raised the whole debate as to what extent humanity has free will

In the Eastern philosophies that evolved in China and India (particularly Daoism and Buddhism) the lines between philosophy and religion are less clear, at least to Western ways of thinking. This marks one of the major differences between Western and Eastern philosophies, Although Eastern philosophies are not generally a result of divine revelation or religious dooma, they are often intricately linked with what we would consider matters of faith. Even though philosophical reasoning is frequently used to justify faith in the Judeo-Christian and Islamic world, faith and belief form an integral part of Eastern philosophy that has no parallel in the West. Eastern and Western philosophy also differ in their starting points. Where the ancient Greeks posed metaphysical questions, the first Chinese philosophers considered these adequately dealt with by religion, and instead concerned themselves with moral and political philosophy





The beginning of thought is in disagreement—not only with others but also with ourselves

Eric Hoffer (



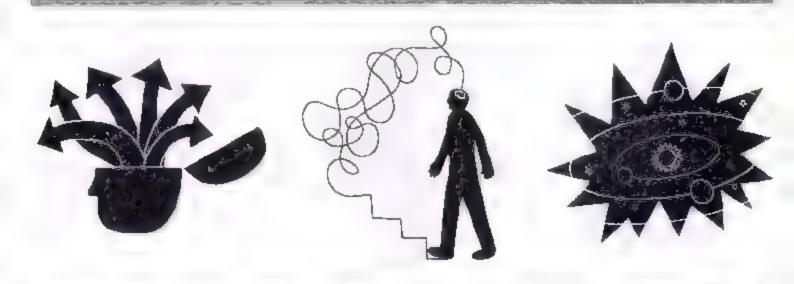
Following the reasoning

Philosophy has provided us with some of the most important and influential ideas in history. What this book presents is a collection of ideas from the bestknown philosophers encapsulated in well known quotes and pithy summaries of their ideas. Perhaps the best-known quotation in philosophy is Descartes' "cogito, ergo sum" (often translated from the Latin as "I think, therefore I am"). It ranks as one of the most important ideas in the history of philosophy, and is widely considered a turning point in thinking, leading us into the modern era. On its own however, the quotation doesn't mean much. It is the conclusion of a line of argument about the nature of certainty, and only when we examine the reasoning leading to it does the idea begin to make sense. And it's only when we see where Descartes took the idea-what the consequences of that conclusion arethat we see its importance

Many of the ideas in this book may seem puzzling at first glance. Some may appear self-evident, others paradoxical or flying in the face of common sense. They might even appear to prove Bertrand Russell's flippant remark that "the point of philosophy is to start with something so simple as not to seem worth stating, and to end with something so paradoxical that no one will believe it." So why are these ideas important?

Systems of thought

Sometimes the theories presented in this book were the first of their kind to appear in the history of thought While their conclusions may seem obvious to us now, in hindsight, they were startlingly new in their time and despite their apparent simplicity they may make us reexamine things that we take for granted. The theories presented here that seem to be paradoxes and counter-intuitive statements are the ideas that really call into question our assumptions about ourselves and the world—and they also make us think in new ways about how we see things. There are many ideas here that raise issues that philosophers still puzzle over Some ideas may relate to other thoughts and theories in different fields of the same philosopher's thinking, or have come from an analysis or criticism of another philosopher's work. These latter ideas form part of a line of reasoning that may extend over several generations or even centuries, or be the central idea of a particular "school" of philosophy. »



Many of the great philosophers formed integrated "systems" of philosophy with interconnecting ideas. For example, their opinions about how we acquire knowledge led to a particular metaphysical view of the universe and man's soul. This in turn has implications for what kind of life the philosopher believes we should lead and what type of society would be ideal. And in turn, this entire system of ideas has been the starting point for subsequent philosophers.

We must remember too that these ideas never quite become outdated They still have much to tell us even when their conclusions have been proved wrong by subsequent philosophers and scientists. In fact, many ideas that had been dismissed for centuries were later to be proved startlingly prescient the theories of the ancient Greek atomists for example More importantly, these thinkers established the processes of philosophy, ways of thinking and organizing our thoughts. We must remember that these ideas are only a small part of a philosopher's thinkingusually the conclusion to a longer line of reasoning

Science and society

These ideas spread their influence beyond philosophy too. Some have spawned mainstream scientific political, or artistic movements. Often the relationship between science and philosophy is a back-and-forth affair, with ideas from one informing the other. Indeed, there is a whole branch of philosophy that studies the thinking behind scientific methods and practices. The development of logical thinking affected how math evolved and became the basis for the scientific method, which relies on systematic observation to explain the world. Ideas about the nature of the self and consciousness have developed into the science of psychology.

The same is true of philosophy's relationship with society Ethics of all sorts found adherents in political leaders throughout history, shaping the societies we live in today, and even prompting revolutions. The ethical decisions made in all kinds of professions have moral dimensions that are informed by the ideas of the great thinkers of philosophy.

Behind the ideas

The ideas in this book have come from people living in societies and cultures which have shaped those

There is more
wisdom in your
body than your
deepest philosophy

Friedrich Nietzsche





ideas. As we examine the ideas, we get a picture of certain national and regional characteristics, as well as a flavor of the times they lived in

The philosophers presented here emerge as distinct personalities some thinkers are optimistic, others pessimistic; some are meticulous and painstaking, others think in broad sweeps, some express themselves in clear, precise language, others in a poetic way, and still more in dense, abstract language that takes time to unpick If you read these ideas in the original texts, you will not only agree or disagree with the what they say, and follow the reasoning by which they reached their conclusions, but also get a feeling of what kind of person is behind it You might, for example, warm to the witty and charming Hume appreciating his beautifully clear prose, while not altogether feeling at home with what he has to say; or find Schopenhauer both persuasive and a delight to read. while getting the distinct feeling that he was not a particularly likeable man.

Above all these thinkers were (and still are) interesting and stimulating. The best were also great writers too, and reading their original writings can be as rewarding as reading literature; we can appreciate not just their literary style, but also their philosophical style, the way they present their arguments. As well as being thought-provoking, it can be as uplifting as great art, as

eregant as a mathematical proof and as witty as an after-dinner speaker

Philosophy is not simply about ideas—it's a way of thinking. There are frequently no right or wrong answers, and different philosophers often come to radically different conclusions in their investigations into questions that science cannot—and religion does not—explain.

Enjoying philosophy

If wonder and curiosity are human attributes, so too are the thrill of exploration and the joy of discovery. We can gain the same sort of "buzz" from philosophy that we might get from physical activity, and the same pleasure that we enjoy from appreciating the arts. Above all, wegain the satisfaction of arriving at beliefs and ideas that are not handed down or forced upon us by society, teachers, religion, or even philosophers, but through our own individual reasoning.

Philosophy is a battle against the bewitchment of our intelligence by means of our language.

> Ludwig Wittgenstein



THE ANGIE

700 BCE-250 CE

rom the beginning of human history people have asked questions about the world and their place within it. For early societies, the answers to the most fundamental questions were found in religion, the actions of the gods explained the workings of the universe, and provided a framework for human civilizations.

Some people, however, found the traditional religious explanations madequate and they began to search for answers based on reason rather than convention or religion. This shift marked the birth of philosophy, and the first of the great thinkers that we know of was Thales of Miletus — Miletus was a Greek settlement in modern-day Turkey Thales used reason to inquire into the nature of the universe. and encouraged others to do likewise He passed on to his followers not only his answers, but the process of thinking rationally, together with an idea of what kind of explanations could be considered satisfactory For this reason Thales is generally regarded as the first philosopher

The main concern of the early philosophers centered around Thales' basic question. "What is the world made of?" Their answers form the foundations of

scientific thought and forged a relationship between science and philosophy that still exists today. The work of Pythagoras marked a key turning point, as he sought to explain the world not in terms of primal matter, but in terms of mathematics. He and his followers described the structure of the cosmos in numbers and geometry. Although some of these mathematical relationships acquired mystical significance for Pythagoras and his followers, their numerical explanation of the cosmos had a profound influence on the beginnings of scientific thought.

Classical Greek philosophy

As the Greek city-states grew in stature philosophy spread across the Greek world from Ioma and in particular to Athens, which was rapidly becoming the cultural center of Greece. It was here that philosophers broadened the scope of philosophy to include new questions, such as "How do we know what we know?" and "How should we live our lives?" It was an Athenian, Socrates, who ushered in the short but hugely influential period of Classical Greek philosophy. Although he left no writings, his ideas were so important



that they steered the future course of philosophy, and all philosophers before him became known as the pre-socratics. His pupil Plato founded a philosophical school in Athens called the Academy (from which the word "academic" derives) where he taught and developed his master's ideas, passing them on to students such as Aristotle, who was a pupil and teacher there for 20 years. The contrasting ideas and methods of these great thinkers—Socrates, Plato, and Aristotle—form the basis of Western philosophy as we know it today, and their differences of opinion have continued to divide philosophers throughout history

The Classical period of ancient Greece effectively came to an end with the death of Alexander the Great in 323 scc. This great leader had unified Greece, and Greek city-states that had worked together once again became rivals. Following the death of Aristotle in 322 scc. philosophy also divided into very different schools of thought, as the cynics, sceptics, epicureans, and stoics argued their positions.

Over the next couple of centuries, Greek culture waned as the Roman Empire grew. The Romans had little time for Greek philosophy apart from stoicism, but

Greek ideas persisted, mainly because they were preserved in the manuscripts and translations of the Arab world. They resurfaced later, during medieval times, with the rise of Christianity and Islam.

Eastern philosophies

Thinkers throughout Asia were also questioning conventional wisdom. Political upheaval in China from 771 to 481 acc led to a collection of philosophies that were less concerned with the nature of the universe than with how best to organize a just society end provide moral guidelines for the individuals within it; in the process examining what constitutes a "good" life. The so-called "Hundred Schools of Thought" flourished in this period, and the most significant of these were Confucianism and Daoism, both of which continued to dominate Chinese philosophy until the 20th century

To the south of China an equality influential philosopher appeared. Siddhartha Gautama, later known as the Buddha. From his teaching in northern India around 500 acc, his philosophy spread across the subcontinent and over most of southern. Asia, where it is still widely practiced.



EVERYTHING IS MADE OF WATER

THALES OF MILETUS (c.624-546 BCE)

IN CONTEXT

BRANCH

Metaphysics

APPROACH

Monism

BEFORE

2500-900 acr The Minoan civilization in Crete and the later Mycenaean civilization in Greece rely on religion to explain physical phenomena.

c.1100 scr The Babyloman creation myth, Entima Eliš, describes the primal state of the world as a watery mass

c.700 act Theogony by the Greek poet Hesiod relates how the gods created the universe.

AFTER

Early 5th century ace Empedocles proposes the four basic elements of the cosmos earth, water, air, and fire

c.400 BCE Leucippus and Democritus conclude that the cosmos is made up solely of atoms and empty space.

uning the Archaic period (mid-8th 6th century etc), the peoples of the Greek peninsula gradually settled into a group of city-states. They developed an alphabetica, system of writing, as well as the beginnings of what is now recognized as Western philosophy.



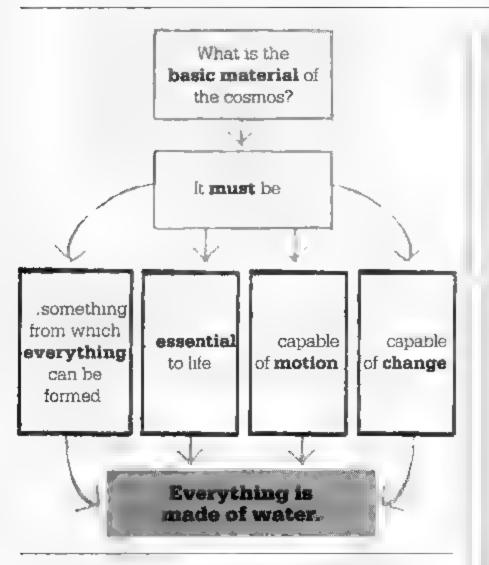
From observation, Thales deduced that specific weather conditions, not appears to the gods, led to a good harvest. Predicting a high yield of olives one year, he is said to have bought up all the local olive presses, then profited by renting them out to meet increased demand.

Previous civilizations had relied on religion to explain phenomena in the world around them; now a new breed of thinkers emerged, who attempted to find natural, rational explanations

The first of these new scientific thinkers that we are aware of was Thales of Miletus Nothing survives of his writings but we know that he had a good grasp of geometry and astronomy, and is reputed to have predicted the total eclipse of the sun in 585 BCE. This practical turn of mind led him to believe that events in the world were not due to supernatural intervention, but had natural causes that reason and observation would revea.

Fundamental substance

Thales needed to establish a first principle from which to work, so he posed the question, "What is the basic material of the cosmos?" The idea that everything in the universe can be ultimately reduced to a single substance is the theory of monism, and Thales and his followers were the first to propose it within Western philosophy



Thales reasons that the fundamental material of the universe had to be something out of which everything else could be formed as well as being essential to life, and capable of motion and therefore of change. He observes that water is clearly necessary to sustain all forms of life, and that it moves and changes, assuming different forms—from liquid to solid ice and vaporous mist. So Thales concludes that all matter, regardless of its apparent properties, must be water in some stage of transformation.

Thales also notes that every landmass appears to come to an end at the water siedge. From this he deduces that the whole of the earth must be floating on a bed of water, from which it has emerged. When anything occurs to cause ripples or tremors in this water, Thales states, we experience them as earthquakes.

However, as interesting as the details of Thales' theories are, they are not the main reason why he is considered a major figure in the history of philosophy. His true importance lies in the fact that he was the first known thinker to seek naturalistic, rational answers to fundamental questions, rather than to ascribe objects and events to the whims of capricious gods. By doing so, he and the later philosophers of the Milesian School laid the foundations for future scientific and philosophical thought across the Western world.

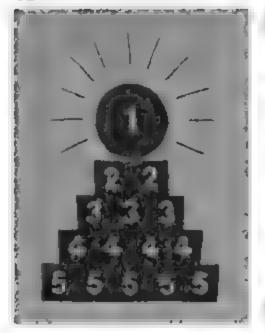


Thales of Miletus

Although we know that
Thales was born and lived in
Miletus, on the coast of what
is now Turkey, we know very
little about his life. None of
his writings, if indeed he left
any, have survived. However,
his reputation as one of the
key early Greek thinkers
seems deserved, and he is
referred to in some detail by
both Aristotle and Diogenes
Laertius, the 3rd-century
biographer of the ancient
Greek philosophers

Anecdotal evidence suggests that as well as being a philosopher. Thales was actively involved in politics and was a very successful businessman. He is thought to have traveled widely around the eastern Mediterranean, and while visiting Egypt, to have learned the practical geometry that was to become the basis of his deductive reasoning.

However, Thales was above all a teacher, the first of the so-called Milesian School of philosophers.
Anaximander, his pupil, expanded his scientific theories, and in turn became a mentor to Anaximenes, who is believed to have taught the young mathematician Pythagoras.



NUMBER IS THE RULER OF FORMS AND IDEAS

PYTHAGORAS (c.570-495 BCE)

INCONTEXT

BRANCH Metaphysics

APPROACH

Pythagoreanism

BEFORE

6th century acr Thales proposes a non-religious explanation of the cosmos.

AFTER

c.535-c.475 scs Herachtus dismisses Pythagoreamsm and says that the cosmos is governed by change

c.428 BCE Plato introduces his concept of perfect Forms, which are revealed to the intellect and not the senses.

c.300 pcr Euclid, a Greek methematician, establishes the principles of geometry.

1619 German mathematician Johannes Kepler describes the relationship between geometry and physical phenomena.

estern philosophy was in its infancy when Pythageras was born. In Miletus, Greece, a group of philosophers known collectively as the Milesian School had started to seek rational explanations for natural phenomena only a generation or so earlier, marking the beginning of the Western.

philosophical tradition. Pythagoras spent his childhood not far from Miletus, so it is very likely that he knew of them, and may even have studied in their academy. Like Thales, the founder of the Milesian School Pythagoras is said to have learnt the rudiments of geometry during a trip to Egypt. With this background, it is not surprising that he should approach philosophical thinking in a scientific and mathematical way.

The Pythagorean academy

Pythagoras was also, however, a deeply religious and superstitious man. He believed in reincarnation and the transmigration of souls, and he established a religious cult, with himself cast as a virtual messiah. in Croton, southern Italy His disciples lived in a collective commune, following strict behavioral and dietary rules, while studying his religious and philosophical theories. The Pythagoreans, as his disciples were known, saw his ideas as mystical revelations to the extent that some of the discoveries attributed to him as "revelations" may in fact have come from others in the community. His ideas were recorded by his students, who included his wife Theano of Crotona, and daughters The two sides of Pythagoras's beliefs—the mystical and the scientific-seem to be irreconcilable, but Pythagoras himself does not see them as contradictory For him. the goal of life is freedom from the cycle of reincarnation, which can be gained by adhering to a strict set of behavioral rules.

Everything in the universe conforms to mathematical rules and ratios

So if we understand number and mathematical relationships

we come to understand the structure of the cosmos

Mathematics is the key model for philosophical thought

Number is the ruler of forms.

Number is the ruler of ideas.

and by contemplation, or what we would call objective scientific thinking. In geometry and mathematics he found truths that he regarded as self-evident, as if god-given and worked out mathematical proofs that had the impact of divine revelation

Because these mathematical discoveries were a product of pure reasoning. Pythagoras believes they are more valuable than mere observations. For example, the Egyptians had discovered that a triangle whose sides have ratios of 3.4.5 always has a right angle, and this was useful in practice, such as in architecture.

But Pythagoras uncovered the underlying principle behind all right-angled triangles (that the square of the hypotenuse equals the sum of the squares of the other two sides) and found it to be universally true. This discovery was so extraordinary, and held such potential, that the Pythagoreans took it to be divine revelation.

Pythagoras concludes that the whole cosmos must be governed by mathematical rules. He says that number (numerical ratios and mathematical axioms) can be used to explain the very structure of the cosmos. He does not totally dismiss the »

Pythagoras

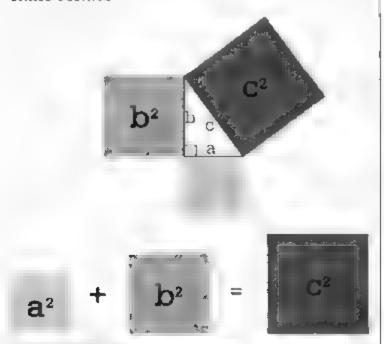


Little is known about
Pythagoras's life. He left
no writings himself, and
unfortunately, as the
Greek philosopher
Porphyry noted in his
Vita Pythagorae, "No

one knows for certain what Pythagoras told his associates, since they observed an unusual silence " However, medern scholars believe that Pythageras was probably born on the island of Samos, off the coast of modern-day Turkey. As a young man, he travelled widely, perhaps studying at the Milesian School, and probably visiting Egypt, which was a centre of learning. At the age of about 40, he set up a community of around 300 people in Croton, southern Italy Its members studied

a mixture of mystical and academic studies. and despite its collective nature. Pythagoras was clearly the community's leader. At the age of 60, he is said to have married a young girl. Theano of Crotona. Growing hostility towards the Pythagorean cult eventually forced him to leave Croton, and he fled to Metapontum, also in southern Italy. where he died soon after. His community had virtually disappeared by the end of the 4th century ace.

Pythagoras's Theorem showed that shapes and ratios are governed by principles that can be discovered. This suggested that it might be possible, in time, to work out the structure of the entire cosmos



Milesian idea that the universe is made up of one fundamental substance, but he shifts the enquiry from substance to form

This was such a profound change in the way of looking at the world, that we should probably forgive Pythagoras and his disciples for getting somewhat carried away, and giving numbers a mystical significance Through exploring the relationship between numbers and geometry, they discoved the square numbers and cube numbers that we speak of today, but they also attributed characteristics to them, such as "good" to the even numbers and "evil" to the odd ones, and even specifics such as "justice" to the number four, and so on The number ten, in the form of the tetractys (a triangular shape made up of rows of dots) had a particular significance in Pythagorean ritual Less contentiously, they saw the number

🗬 🌑 There is geometry in the humming of the strings there is music in the spacing of the spheres

Pythagoras

[1] 在100 mm (100 mm) (100 mm)



one as a single point, a unity, from which other things could be derived The number two in this way of thinking was a line, number three a surface or plane, and four a solid: the correspondence with our modern concept of dimensions is obvious

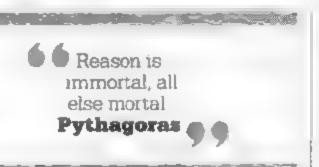
The Pythagorean explanation of the creation of the universe followed a mathematical pattern on the Unlimited (the infinite that existed before the universe), God imposed a Limit, so that all that exists came to have an actual size. In this way God created a measurable unity from which everything else was formed

Numerical harmonies

Pythagoras s most important discovery was the relationships between numbers the ratios and proportions. This was reinforced by his investigations intomusic, and in particular into the relationships between notes that sounded pleasant together. The story goes that he first stumbled onto this idea when listening to blacksmiths at work. One had an anvil half the size of the other. and the sounds they made when hit with a hammer were exactly an octave (eight notes) apart While this may be true, it was probably by experimenting with a plucked string that Pythagoras determined the ratios of the consonant intervals (the number of notes between two notes that determines whether they will sound harmonious if struck together) What he discovered was that these intervals were harmonious because the relationship between them was a precise and simple mathematical ratio. This series, which we now know as the harmonic series, confirmed for him that the elegance of the mathematics he had found in abstract geometry also existed in the natural world

The stars and elements

Pythagoras had now proved not only that the structure of the universe can be explained in mathemathical terms— "number is the ruler of forms" but also that acoustics is an exact science, and number governs harmonious proportions



He then started to apply his theories to the whole cosmos, demonstrating the harmonic relationship of the stars. planets, and elements. His idea of harmonic relationships between the stars was eagerly taken up by medieval and Renaissance astronomers, who developed whole theories around the idea of the music of the spheres, and his suggestion that the elements were arranged harmoniously was revisited over 2,000 years after his death In 1865 English chemist John Newlands discovered that when the chemica. elements are arranged according to atomic weight, those with similar properties occur at every eighth element, like notes of music This discovery became known as the Law of Octaves, and it helped lead to the development of the Periodic Law of chemical elements still used today

Pythagoras also established the principle of deductive reasoning, which is the step-by-step process of starting with self-evident axioms (such as "2 + 2 - 4") to

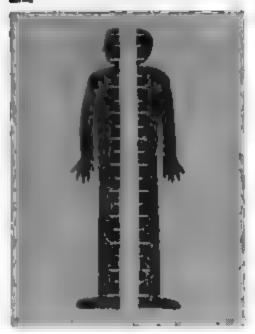
build toward a new conclusion or fact Deductive reasoning was later refined by Euclid, and it formed the basis of mathematical thinking into medieval times and beyond

One of Pythagoras's most important contributions to the development of philosophy was the idea that abstract thinking is superior to the evidence of the senses. This was taken up by Plato in his theory of Forms, and resurfaced in the philosophical method of the rationalists in the 17th century. The Pythagorean attempt to combine the rational with the religious was the first attempt to grapple with a problem that has dogged philosophy and religion in some ways ever since.

Almost everything we know about Pythagoras comes to us from others, even the bare facts of his life are largely conjecture. Yet he has achieved a near-legendary status (which he apparently encouraged) for the ideas attributed to him. Whether or not he was in fact the originator of these ideas does not really matter, what is important is their profound effect on philosophical thought.

Classical architecture follows Pythagorean mathematical ratios. Harmonious shapes and ratios are used throughout scaled down in the smaller parts, and up for the overall structure.





MAN IS THE MEASURE OF ALL THINGS

PROTAGORAS (c.490-420 BCE)

IN CONTEXT

BRANCH

Ethics

APPROACH

Relativism

BEFORE

Early 5th century acz Parmenides argues that we can rely more on reason than the evidence of our senses.

AFTER

Early 4th century BCE Plate's theory of Forms states that there are "absolutes" or ideal forms of everything

1680 French writer Michel de Montaigne espouses a form of relativism to describe human behavior in his Essays.

1967-72 Jacques Derrida uses his technique of deconstruction to show that any text contains irreconcilable contradictions.

2005 Benedict XVI warns "we are moving towards a dictatorship of relativism" in his first public address as pope.

uring the 5th century BCE, Athens evolved into an important and prosperous city-state, and under the leadership of Pencles (445–429 BCE) it entered a "Golden Age" of scholarship and culture

It is a spring day in Athens

A visitor from Sweden says the weather is warm A visitor from Egypt says the weather is cold

Both people are speaking the truth

The truth depends on perspective and is therefore relative

> Man is the measure of all things.

This attracted people from all parts of Greece, and for those who knew and could interpret the law, there were rich pickings to be had. The city was run on broadly democratic principles, with an established legal system.

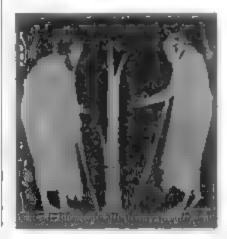
Anyone taken to court was required to plead his own case, there were no advocates, but a recognized class of advisors soon evolved Among this group was Protagoras

Everything is relative

Protagoras lectured in law and rhetoric to anybody who could afford him. His teachings were essentially about practical matters, arguing to win a civil case rather than to prove a point, but he could see the philosophical implications of what he taught. For Protagoras, every argument has two sides, and both may be equally valid He claims that he can "make the worse case the better", proving not the worth of the argument, but the persuasiveness of its proponent. In this way, he recognizes that belief is subjective, and it is the man holding the view or opinion that is the measure of its worth. This style of reasoning, common in law and politics at that time, was new to philosophy By placing human beings at its center, it continued a tradition of taking religion out of philosophical argument, and it also shifted the focus of philosophy away from an understanding of the nature of the universe to an examination of human behavior. Protagoras is mainly interested in practical questions Philosophical speculations on the substance of the cosmos or about the existence of the gods seem pointless to him, as he considers such things to be ultimately unknowable

The main implication of "man is the measure of all things" is that belief is subjective and relative. This leads Protagoras to reject the existence of absolute definitions of truth, justice, or virtue. What is true for one person may be false for another, he claims. This relativism also applies to moral values, such as what is right and what is wrong. To Protagoras, nothing is inherently good in itself. Something is ethical, or right, only because a person or society judges it to be so.

Protegoras was the most influential of a group of itinerant teachers of law and rhetoric that became known as the Sophists (from the Greek sophia, meaning wisdom). Socrates and Plato derided the Sophists as mere rhetoricians, but with Protagoras there was a significant step in ethics toward the view that there are no absolutes and that all judgements, including moral judgements, are subjective.



According to
Protagoras, any
"truth" uncovered
by these two
philosophers
depicted on a
5th-century BCE
Greek drinking
vessel, will depend
on their use of
thetoric and their
debating skill

Protagoras



Protagoras was born in Abdera, in northeast Greece, but traveled widely as an itinerant teacher. At some stage, he moved to Athens, where he became advisor to the ruler of the city-state, Pericles, who commissioned him to write the constitution for the colony of Thurii in 444 scs. Protagoras was a proponent of agnosticism, and legend has it that he was later tried for impiety, and that his books were publicly burned.

Only fragments of his writings survive, although Plato discusses the views of Protagoras at length in his dialogues.

Protagoras is believed to have lived to the age of 70, but his exact date and place of death are unknown.

Key works

On the Gods
Truth
On Being
The Art of Controversy
On Mathematics
On the State
On Ambition
On Virtues
On the Original State
of Things



THE LIFE WHICH IS UNEXAMINED IS NOT WORTH LIVING

SOCRATES (469-399 BCE)

IN COMPEXT

BRANCH

Epistemology

APPROACH

Dialectical method

BEFORE

c.600-450 scx Pre-Socratic histophers in Ionia and Italy attempt to explain the nature of the cosmos.

Early 5th century acz Parmenides states that we can only understand the universe through reasoning

c.450 acm Protagoras and the Sophists apply thetoric to philosophical questions

AFTER

c.399-355 pcr Plate pertrays the character of Socrates in the Apology and numerous other dialogues

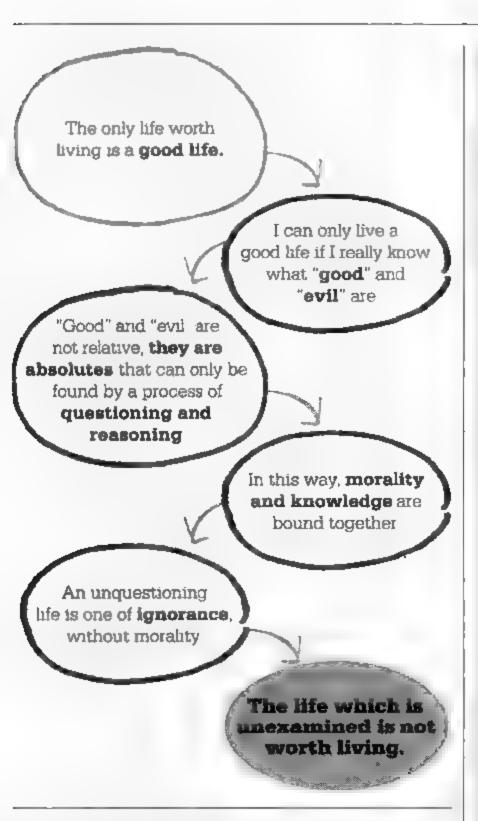
4th century see Anstetle acknowledges his debt to Sociates' method

ocrates is often referred to as one of the founders of Western philosophy and yet he wrote nothing, established no school and head no particular theories of his own. What he did do, however, was persistently ask the questions that interested him, and in doing so evolved a new way of thinking, or a new way of

examining what we think. This has been called the Socratic, or dialectical, method ("dialectical" because it proceeds as a dialogue between opposing views), and t earned him many enemies in Athens, where he lived He was vilified as a Sophist (someone who argues for the sake of deception), and was sentenced to death on charges of corrupting the young with ideas that undermined tradition. But he also had many followers, and among them was Plato, who recorded Socrates' ideas in a series of written works, called dialogues in which Socrates sets about examining various ideas. It is largely thanks to these dialogues—which include the Apology Phaedo, and the Symposium that Socrates' thought survived at all, and that it went on to quide the course of Western philosophy

The purpose of life

Socrates lived in Athens in the second half of the 5th century ace. As a young man he is believed to have studied natural philosophy looking at the various explanations of the nature of the universe. but then became involved in the politics of the city-state and concerned with more down-to-earth ethical issues, such as the nature of justice. However, he was not interested in winning arguments, or arguing for the sake of making moneya charge that was leveled at many of his contemporaries. Nor was he seeking answers or explanations—he was simply examining the basis of the concepts we apply to ourselves (such as "good", "bad",



and "just"), for he believed that understanding what we are is the first task of philosophy.

Socrates central concern then, was the examination of life, and it was his ruthless questioning of people's most cherished beliefs (largely about themselves) that earned him his enemies—but he remained committed to his task until the very end. According to the account of his defence at his trial, recorded by Plato, Socrates chose death rather than face a life of ignorance. "The hife which is unexamined is not worth living."

But what exactly is involved in this examination of life? For Socrates it was a process of questioning the meaning of essential concepts that we use every day but have never really thought about, thereby revealing their real meaning and our own knowledge or ignorance. Socrates was one of the first »



Socrates

Born in Athens in 469 BCE, Socrates was the son of a stonemason and a midwife. It is likely that he pursued his father's profession, and had the opportunity to study philosophy, before he was called up for military service After distinguishing himself during the Peloponnesian War, he returned to Athens, and for a while involved himself in politics. However, when his father died he inherited enough money to live with his wife Xanthippe without having to work.

From then on, Socrates became a familiar sight around Athens, involving himself in philosophical discussions with fellow citizens and gaining a following of young students. He was eventually accused of corrupting the minds of young Athenians, and was sentenced to death. Although he was offered the choice of exile, he accepted the guilty verdict and was given a fatal dose of hemlock in 399 BCE.

Key works

4th-3rd century BCE
Plato's record of Socrates'
life and philosophy in
the Apology and
numerous dialogues

Socrates' dialectical method was a simple method of questioning that brought to light the often false assumptions on which particular claims to knowledge are based



philosophers to consider what it was that constituted a "good" life for him it meant achieving peace of mind as a result of doing the right thing, rather than living according to the moral codes of society. And the "right thing" can only be determined through rigorous examination.

Socrates rejected the notion that concepts such as virtue were relative. insisting instead that they were absolutes, applicable not just to citizens of Athens, or Greece but to all people in the world. He beneved that virtue (areté in Greek. which at the time implied excellence and fulfilment) was "the most valuable of possessions" and that no-one actually desires to do evil. Anyone performing evil actions would be acting against their conscience and would therefore feel uncomfortable, and as we all strive for peace of mind it is not something we would do willingly. Evil, he thought, was done because of lack of wisdom and knowledge From this he concluded that "there is only one good: knowledge; and one evil ignorance "Knowledge is inextricably bound to morality—it is the "only one good"—and for this reason we must continually "examine" our lives

Care of the soul

For Socrates knowledge may also play a part in life after death. In the Apology Plato's Socrates prefaces his famous quote about the unexammed life by saying "I tell you that to let no day pass without discussing goodness and all the other subjects about which you hear me talking, and that examining both myself and others is really the very best thing a man can do." This gaining of knowledge rather than wealth or high status, is the altimate goal of life. It is not a matter of entertainment or curiosity—it is the reason why we exist. Moreover, all knowledge is altimately self-knowledge, for it creates the person you are within this world, and fosters the care of the immortal soul In Phaedo Socrates says that an unexammed life leads the soul to be "confused and dizzy, as if it were drunk", while the wise soul achieves stability, its straying finally brought to an end

Distriction method

Socrates quickly became a well-known figure in Athens, with a reputation for an enquiring mind. A friend of his, so the story goes, asked the priestess of Apollo at Delphi who the wisest man in the world was: the oracular reply was that there was no-one wiser than Socrates. When Socrates heard about this, he was astounded, and went to the most knowledgeable people he could find to try to disprove it. What he discovered was that these people only thought they knew a great deal, under examination, their knowledge was proved to be either limited or false.

What was more important, however was the method he used to question their knowledge. He took the standpoint of someone who knew nothing, and merely asked questions, exposing contradictions in arguments and gaps in knowledge to gradually elicit insights. He likened the process to his mother's profession of midwife, assisting in the birth of ideas

Through these discussions, Socrates came to realize that the Delphic oracle had been right – he was the wisest man in Athens, not because of his knowledge but because he professed to know nothing He also saw that the inscription on the entrance to the temple at Delphi, gnothi

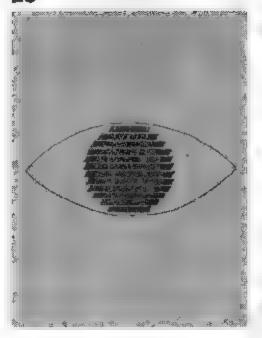
Socrates was put to death in 399 BCE ultimately for questioning the basis of Athenian morality. Here he accepts the bowl of hemlock that will kill him, and gestures defiantly at the heavens.

seauton ("know thyself"), was just as significant. To gain knowledge of the world and oneself it was necessary to realize the limits of ones own ignorance and to remove all preconceptions. Only then could one hope to determine the truth

Socrates set about engaging the people of Athens in discussion on topics such as the nature of love, justice, and loyalty. His mission, misunderstood at the time as a dangerous form of Sophistry—or cleverness for the sake of it—was not to instruct the people, nor even simply to learn what they knew, but to explore the ideas that they had. It was the conversation itself, with Socrates guiding it, that provided him with insights. Through a series of questions he revealed the ideas and assumptions his opponent held, then exposed the contradictions within them and brought them to agree to a new set of conclusions.

This method of examining an argument by rational discussion from a position of ignorance marked a complete change in philosophical thinking. It was the first known use of inductive argument, in which a set of premises based on experience is first established to be true, and then shown to lead to a universal truth in conclusion. This powerful form of argument was developed by Aristotle and later by Francis Bacon, who used it as the starting point of his scientific method. It became, therefore the foundation not only of Western philosophy, but of all the empirical sciences.





EARTHLY KNOWLEDGE IS BUT SHADOW

PLATO (c.427-347 BCE)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Rationalism

BEFORE

6th century BCE The Milesian philosophers propose theories to explain the nature and substance of the cosmos

c.500 scr Heraclitus argues that everything is constantly in a state of flux or change.

c.450 BCE Protagoras says that truth is relative.

AFTER

c.335 BCE Aristotle teaches that we can find truth by observing the world around us.

c.250 cz Plotanus founds the Neo-Platonist school, a religious take on Plato's ideas

386 St. Augustine of Hippo integrates Plato's theories into Christian doctrine

n 399 BCE, Plato's mentor Socrates was condemned to death. Socrates had left no writings, and Plato took it upon himself to preserve what he had learnt from his master for posterity—first in the Apology, his retelling of Socrates' defense at his trial, and later by using Socrates as

The real world is the **world of Ideas**, which contains the Ideal
Forms of everything

We are born with the concepts of these **Ideal Forms** in our minds The illusory world in which we hve—the world of the senses—contains imperfect copies of the Ideal Forms

We recognize **things in the world**, such as dogs, because we recognize they are **imperfect copies** of the concepts in our minds

Everything in this world is a "shadow" of its Ideal Form in the world of Ideas.

a character in a series of dialogues. In these dialogues, it is sometimes difficult to untangle which are Socrates' thoughts and which are the original thoughts of Plato, but a picture emerges of Plato using the methods of his master to explore and explain his own ideas Initially Plato's concerns were very much those of his mentor, to search for definitions of abstract moral values such as "rustice" and "virtue", and to refute Protagoras's notion that right and wrong are relative terms. In the Republic, Plato set out his vision of the ideal city-state and explored aspects of virtue. But in the process, he also tackled subjects outside moral philosophy Like earlier Greek thinkers. he questioned the nature and substance of the cosmos, and explored how the immutable and sternal could exist in a seemingly changing world. However, unlike his predecessors, Plato concluded that the "unchanging" in nature is the same as the "unchanging" in morals and society

Seeking the Ideal

In the Republic, Plato describes Socrates posing questions about the virtues, or moral concepts, in order to establish clear and precise definitions of them. Socrates had famously said that "virtue is knowledge", and that to act justly, for example, you must first ask what justice is. Plato decides that before referring to any moral concept in our thinking or reasoning, we must first explore both what we mean by that concept and what makes it precisely the kind of thing that it is He raises the question of how we would recognize the correct, or perfect, form of anything—a form that is true for all societies and for all time. By doing so, Plato is implying that he thinks some kind of ideal form of things in the world we inhabit whether those things are moral concepts or physical objects—must actually exist, of which we are in some way aware

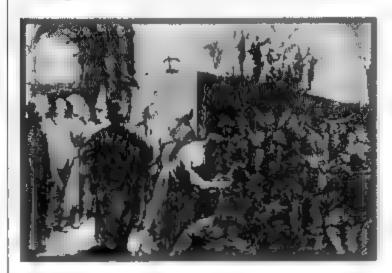
Plate talks about objects in the world around us, such as beds. When we see a bed, he states, we know that it is a bed and we can recognize all beds, even though they may differ in numerous ways. Dogs in their many species are even more varied, yet all dogs share the characteristic of "dogginess", which is something we can recognize, and that allows us to say we know what a dog is Plate argues that it is not just that a shared "dogginess" or "bedness" exists, but that we all have in our minds an idea of an ideal bed or dog, which we use to recognize any particular instance.

6 6 If particulars are to have meaning, there must be universals Plate

Taking a mathematical example to further his argument, Plato shows that true knowledge is reached by reasoning, rather than through our senses. He states that we can work out in logical steps that the square of the hypotenuse of a right-angled triangle is equal to the sum of the squares of the other two sides, or that the sum of the three interior angles of any triangle is always 180 degrees. We know the truth of these statements, even though the perfect triangle does not exist anywhere in the natural world. Yet we are able to perceive the perfect triangle—or the perfect straight line or circle—in our minds, using our reason. Plato, therefore, asks whether such perfect forms can exist anywhere

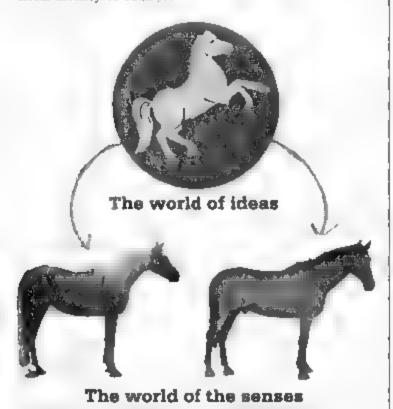
World of Ideas

Reasoning brings Plato to only one conclusion—that there must be a world of ideas, or Forms, which is totally separate from the material world. It is there that the idea of the perfect "triangle", along with the idea of the perfect "bed" and "dog" exists. He concludes that human senses cannot perceive this place directly—it is only perceptible to us through reason. Plato even goes on to state that this realm of »



The Allegory of the Cave, in which knowledge of the world is limited to mere shadows of reality and truth, is used by Plato to explain his idea of a world of perfect Forms, or ideas

According to Piato's theory of Forms, every horse that we encounter in the world around us is a lesser version of an "ideal", or perfect, horse that exists in a world of Forms or Ideas—a realm that humans can only access through their ability to reason



Ideas is "reality", and that the world around us is merely modelled upon it

To illustrate his theory, Plato presents what has become known as the "Allegory of the Cave " He asks us to imagine a cave in which people have been imprisoned since birth, tied up facing the back wall in the darkness. They can only face straight ahead Behind the prisoners is a bright fire which casts shadows onto the wall they are facing There is also a rampart between the fire and the prisoners along which people walk and hold up various objects from time to time, so that the shadows of these objects are cast on the wall. These shadows are all the prisoners know of the world, they have no concept of the actual objects themselves. If one of the prisoners manages to until himself and turn around, he will see the objects themselves. But after a lifetime of entrapment he is likely to be confused, as well as dazzled by the fire, and will most likely turn back toward the wall and the only reality he knows

Plato believes that everything that our senses perceive in the material world is like the images on the cave wall, merely shadows of reality. This belief is the basis of his theory of Forms, which is that for every earthly thing that we have the power to perceive with our senses, there is a corresponding "Form" (or "Idea")—an eternal and perfect reality of that thing—in the world of Ideas Because what we perceive via our senses is based on an experience of imperfect or incomplete "shadows" of reality, we can have no real knowledge of those things. At best, we may have opinions, but genuine knowledge can only come from study of the Ideas, and that can only ever be achieved through reason, rather than through our deceptive senses

This separation of two distinct worlds, one of appearance, the other of what Plato considers to be reality also solves the problem of finding constants in an apparently changing world. The material world may be subject to change but Plato's world of Ideas is eternal and immutable Plato applies his theory not just to concrete things, such as beds and dogs, but also to abstract concepts In Plato's world of Ideas there is an Idea of justice, which is true justice, and all the instances of justice in the material world around us are models, or lesser variants of it. The same is true of the concept of goodness, which Plato considers to be the ultimate Idea - and the goal of all philosophical enquiry

Innate knowledge

The problem remains of how we can come to know these Ideas so that we have the ability to recognize the imperfect instances of them in the world we inhabit. Plato argues that our conception of Ideal Forms must be innate even if we are not aware of this. He believes that human beings are divided into two parts: the body and the soul. Our bodies possess the senses through which we are able to perceive the material world, while the soul possesses the reason with which we can perceive the

6 6 The soul of man is immortal and imperishable Plate



Marcus Aurelius
Roman Emperor
from 161 to 180 cs.
was not just a
powerful ruler,
he was a noted
scholar and
thunker—a
realization of
Plato s idea that
philosophers
should lead society

realm of Ideas Plato concludes that our soul, which is immortal and eternal, must have inhabited the world of Ideas before our birth and still yearns to return to that realm after our death. So when we see variations of the Ideas in the world with our senses we recognize them as a sort of recollection Recalling the innate memories of these Ideas requires reason—an attribute of the soul

For Plato, the philosopher's job is to use reason to discover the Ideal Forms or Ideas In the Republic, he also argues that it is philosophers, or rather those who are true to the philosopher's calling, who should be the ruling class. This is because only the true philosopher can understand the exact nature of the world and the truth of moral values. However, just like a prisoner in the

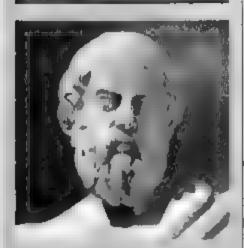
"Allegory of the Cave" who sees the real objects rather than their shadows, many will just turn back to the only world they feel comfortable with Plato often found it difficult to convince his fellow philosophers of the true nature of their calling

Unsurpassed legacy

Plate himself was the embodiment of his ideal, or true, philosopher. He argued on questions of ethics that had been raised previously by the followers of Protagoras and Socrates, but in the process, he explored for the first time the path to knowledge itself. He was a profound influence on his pupil Aristotle—even if they fundamentally disagreed about the theory of Forms. Plate's ideas later found their way into the philosophy of medieval Islamic and Christian thinkers, including St. Augustine of Hippo, who combined Plate's ideas with those of the Church

By proposing that the use of reason rather than observation is the only way to acquire knowledge, Plato also laid the foundations of 17th-century rationalism. Plato's influence can still be felt today—the broad range of subjects he wrote about led the 20th-century British logician Alfred North Whitehead to say that subsequent Western philosophy "consists of a set of footnotes to Plato."

Plato



Despite the large proportion of writings attributed to Plato that have survived, little is known about his life. He was born

into a noble family in Athens in around 427 BCE and named Aristocles. but acquired the nickname "Plate" (meaning "broad"). Although probably destined for a life in politics, he became a pupil of Socrates. When Socrates was condemned to death. Plate is said to have become distillusioned with Athens, and left the city. He travelled widely, spending some time in southern Italy and Sicily, before returning to Athens around 385 BCR. Here he founded a school known as the

Academy (from which the word "academic" comes), remaining its head until his death in 347 scc.

Key works

c.399-387 BCE Apology, *
Crito, Giorgias, Hippias
Major, Meno, Protagoras
(early dialogues)
c.380-360 BCE Phaedo,
Phaedrus, Republic,
Symposium (middle
dialogues)
c.360-355 BCE
Parmenides,
Sophist, Theaetetus
(late dialogues)



TRUTH RESIDES IN THE WORLD AROUND US

ARISTOTLE (384-322 BCE)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Empiricism

BEFORE

399 BCE Socrates argues that virtue is wisdom.

c.380 BCR Plato presents his theory of Forms in his Sociatic dialogue,

The Republic

AFTER

9th century cr. Amstotle's writings are translated into Arabic

13th century Translations of Amstotle's works appear in Latin

1690 John Locke establishes a school of British empiricism.

1735 Zoologist Carl Linnaeus lays the foundations of modern taxonomy in Systema Naturae, based on Aristotle's system of biological classification.

ristotle was 17 years old when he arrived in Athens to study at the Academy under the great philosopher Plato. Plato himself was 60 at the time, and had already devised his theory of Forms According to this theory all earthly phenomena, such as justice and the color green, are shadows of ideal counterparts, called Forms,

which give their earthly models their particular identities

Aristotle was a studious type, and no doubt learnt a great deal from his master, but he was also of a very different temperament. Where Plato was brilliant and intuitive, Aristotle was scholarly and methodical. Nevertheless, there was an obvious mutual respect, and Aristotle stayed at the Academy, both as a student and a teacher, until Plato died 20 years later. Surprisingly, he was not chosen as Plato's successor, and so he left Athens and took what would prove to be a fruitful trip to Ionia.

Plato's theory guestioned

The break from teaching gave Aristotle the opportunity to indulge his passion for studying wildlife, which intensified his feeling that Plato's theory of Forms was wrong It is tempting to imagine that Anstotle's arguments had already had some influence on Piato, who in his later dialogues admitted some flaws in his earlier theories, but it is impossible to know for certain. We do know, though, that Plato was aware of the Third Man argument, which Aristotle used to refute his theory of Forms. This argument runs as follows: if there exists in a reaim of Forms a perfect Form of Man on which earthly men are modelled, this Form, to have any conceivable content, would have to be based on a Form of the Form of Man-and this too would have to be based on a higher Form on which the Forms of the Forms are based and so on ad infinitum

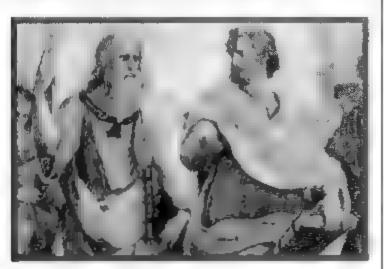
We see different instances of "dog" in the world around us

Using our senses and our reason, we understand what makes a dog a dog

We recognize the common characteristics of dogs in the world We find the truth from evidence gained in the world around us.

Aristotle's later argument against the theory of Forms was more straightforward, and more directly related to his studies of the natural world. He realized that it was simply unnecessary to assume that there is a hypothetical realm of Forms, when the reality of things can already be seen here on Earth, inherent in everyday things.

Perhaps because his father had been a physician, Aristotle's scientific interests lay in what we now call the biological sciences, whereas Plato's background had been firmly based in mathematics This difference in background helps to explain the difference in approach between the two men Mathematics. especially geometry, deals with abstract concepts that are far removed from the everyday world, whereas biology is very much about the world around us, and is based almost solely on observation Plato sought confirmation of a realm of Forms from notions such as the perfect circle (which cannot exist in nature), but



Plato and Aristotle differed in their opinion of the nature of universal qualities. For Plato, they reside in the higher realm of the Forms, but for Aristotle they reside here on Earth

Aristotle found that certain constants can be discovered by examining the natural world

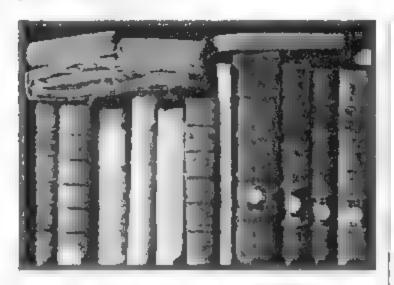
Trusting the senses

What Aristotle proposed turned Plato's theory on its head. Far from mistrusting our senses, Aristotle relied on them for the evidence to back up his theories. What he learnt from studying the natural world was that by observing the characteristics of every example of a particular plant or animal that he came across, he could build up a complete picture of what it was that distinguished it from other plants or animals, and deduce what makes it what it is. His own studies confirmed what he already believed—that we are not born with an innate ability to recognize Forms, as Plato maintained.

Each time a child comes across a dog, for example, it notes what it is about that animal that it has in common with other dogs, so that it can eventually recognize the things that make something a dog. The child now has an idea of "dogginess", or the "form" as Aristotle puts it, of a dog in this way we learn from our experience of the world what the shared characteristics are that make things what they are—and the only way of experiencing the world is through our senses

The essential form of things

Like Plato, then, Aristotle is concerned with finding some kind of immutable and eternal bedrock in a world characterized by change, but he concludes that there is no need to look for this anchor in a world of Forms that are only perceptible to the soul. »



Aristotle classified many of the different strands of knowledge and learning that we have today such as physics logic, metaphysics, poetics, ethics, politics and biology

The evidence is here in the world around us, perceptible through the senses. Aristotle believes that things in the material world are not imperfect copies of some ideal Form of themselves, but that the essential form of a thing is actually inherent in each instance of that thing. For example "dogginess" is not just a shared characteristic of dogs—it is something that is inherent in each and every dog. By studying particular things therefore, we can gain insight into their universal, immutable nature.

What is true of examples in the natural world, Aristotle reasons, is also true of concepts relating to human beings. Notions such as "virtue", "justice", "beauty", and "good" can be examined in exactly the same way. As he sees it, when we are born our minds are like "unscribed tablets", and any ideas that we gain can only be received through our senses. At birth, we have no innate ideas, so we can have no idea of right or wrong. As we encounter instances of justice throughout our lives, however we learn to recognize the qualities that these instances have in common and slowly build and refine our understanding of what justice is In other words the only way we can come to know the eternal immutable idea of justice, is by observing how it is manifested in the world around us

Aristotle departs from Plate, then, not by denying that universal qualities exist, but by questioning both their nature and the means by which we come to know them (the latter being the fundamental quesion

of "epistemology", or the theory of knowledge). And it was this difference of opinion on how we arrive at universal truths that later divided philosophers into two separate camps: the rationalists (including René Descartes, Immanuel Kant, and Gottfried Leibniz) who believe in a priori, or innate, knowledge; and the empiricists (including John Locke, George Berkeley, and David Hume) who claim that all knowledge comes from experience

Biological classification

The manner in which Plato and Aristotle arrive at their theories tells us much about their temperaments Plato's theory of Forms is grand and otherworldly, which is reflected in the way he argues his case using highly imaginative fictionalized dialogues between Socrates and his contemporaries By contrast, Aristotle's theory is much more down to earth, and is presented in more presaic, academic language, Indeed, so convinced was Aristotic that the truth of the world is to be found here on Earth, and not in some higher dimension, that he set about collecting specimens of flora and fauna, and classified them according to their characteristics

For this biological classification. Aristotle devised a hierarchical systemthe first of its kind and so beautifully constructed that it forms the basis of the taxonomy still in use today First, he divides the natural world into living and nonliving things then he turns his attention to classifying the living world. His next division is between plants and animals, which involves the same kind of thinking that underpins his theory of universal qualities: we may be able to distinguish between a plant and an animal almost without thinking, but how do we know how to make that distinction? The answer, for Aristotle, is in the shared features of either category. All plants share the form "plant", and all animals share the form "animal" And once we understand the nature of those forms, we can then recognize them in each and every instance.

This fact becomes more apparent the more Aristotle subdivides the natural world. In order to classify a specimen as a

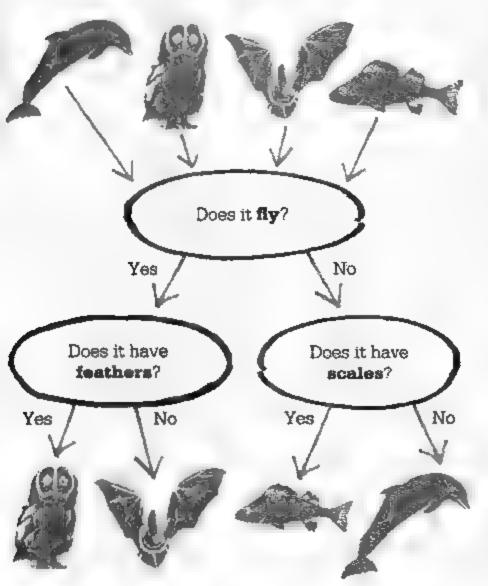
fish, for example, we have to recognize what it is that makes a fish a fish—which, again, can be known through experience and requires no innate knowledge at all. As Aristotle builds up a complete classification of all living things, from the simplest organisms to human beings, this fact is confirmed again and again.

Teleological explanation

Another fact that became obvious to
Aristotle as he classified the natural world
is that the "form" of a creature is not just a
matter of its physical characteristics, such as
its skin, fur, feather, or scales, but also a
matter of what it does, and how it behaves—
which, for Aristotle, has ethical implications.

To understand the link with ethics, we need first to appreciate that for Aristotle everything in the world is fully explained

Aristotle's classification of living things is the first detailed examination of the natural world. It proceeds from general observations about the characteristics shared by all animals, and then subdivides into ever more precise categories.



by four causes that fully account for a thing's existence. These four causes are the material cause, or what a thing is made of, the formal cause, or the arrangement or shape of a thing, the efficient cause, or how a thing is brought into being, and the final cause, or the function or purpose of a thing. And it is this last type of cause, the "final cause", that relates to ethics—a subject which, for Aristotle, is not separate from science, but rather a logical extension of biology

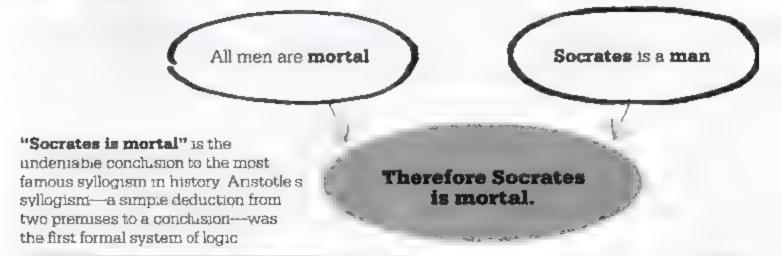
An example that Aristotle gives is that of an eye: the final cause of an eye—its function—is to see. This function is the purpose or telos, of the eye—telos is a Greek word that gives us "teleology", or the study of purpose in nature. A teleological explanation of a thing is therefore an account of a thing's purpose, and to know

the purpose of a thing is also to know what a "good" or a "bad" version of a thing is—a good eye for example, is one that sees well.

In the case of humans, a "good" life is therefore one in which we fulfill our purpose, or use all the characteristics that make us human to the full A person can be considered "good" if he uses the characteristics he was born with, and can only be happy by using all his capabilities in the pursuit of virtue—the highest form of which, for Aristotle, is wisdom. Which brings us full circle back to the question of how we can recognize the thing that we call virtueand for Aristotle, again, the answer is by observation We understand the nature of the "good life" by seeing it in the people around us

The syllogism

In the process of classification, Aristotle formulates a systematic form of logic which he applies to each specimen to determine »



whether it belongs to a certain category For example, one of the characteristics common to all reptiles is that they are coidblooded so if this particular specimen is warm-blooded, then it cannot be a reptile Likewise a characteristic common to all mammals is that they suckle their young, so if this specimen is a mamma, it will suckle its young. Aristotie sees a pattern in this way of thinking—that of three propositions consisting of two premises and a conclusion, for example in the form If As are Xs, and B is an A then B is an X The "syllogism", as this form of reasoning is known as the first formal system of logic ever devised, and it remained the basic model for logic up until the 19th century

But the syilogism was more than simply a by-product of Aristotle's systematic classification of the natural world. By using analytical reasoning in the form of logic Aristotle realized that the power of reason was something that did not rely on the senses, and that it must therefore be an innate characteristic part of what it is to be human. Although we have no innate ideas, we do possess this innate faculty which is necessary for us to learn from experience. And as he applied this fact to his hierarchical system, he saw that the innate power of reason is what distinguishes us from all other living creatures, and placed us at the top of the hierarchy

Decline of Classical Greece

The sheer scope of Aristotle's ideas, and the revolutionary way in which he overturns Plato's theory of Forms, should have ensured that his philosophy had a far greater impact than it did during his lifetime. That is not to say that his work was without fault—his geography and astronomy were flawed; his ethics supported the use of slaves and considered women to be inferior human beings, and his logic was incomplete by modern standards. However, what he got right amounted to a revolution both in philosophy and in science.

But Aristotle lived at the end of an era Alexander the Great, whom he taught died shortly before him, and so began the Hellenistic period of Greek history which saw a decline in Athens' influence. The Roman Empire was becoming the dominant power in the Mediterranean, and the philosophy it adopted from Greece was that of the Stoics. The rival schools of Plato and Aristotle—Plato's Academy and the Lyceum Aristotle founded in Athens—continued to operate, but they had lost their former eminence

As a result of this neglect, many of Aristotle's writings were lost. It is believed that he wrote several hundred treatises and dialogues explaining his theories, but all that remain are fragments of his work, mainly in the form of lectures and teacher's notes. Luckily for posterity, these were preserved by his followers, and there is enough contained in them to give a picture of the full range of his work.

Aristotle's legacy

With the emergence of Islam in the 7th century ce, Aristotle's works were translated into Arabic and spread throughout the Islamic world, becoming essential reading for Middle Eastern scholars such as Avicenna and Averroes In Western Europe, however, Boethius's Latin



The influence of Aristotle on the history of thought can be seen in the Great Chain of Being, a medieval Christian depiction of life as a hierarchy in which with God presides over all

translation of Aristotle's treatise on logic (made in the 6th century cs) remained the only work of Aristotle's available until the 9th century cs, when all of Aristotle's works began to be translated from Arabic into Latin. It was also at this time that his ideas were collected into the the books we know today—such as Physics, The Nicomachean Ethics, and the Organon. In the 13th century, Thomas Aquinas braved a ban on Aristotle's work and integrated it into Christian philosophy, in the same way that St. Augustine had adopted Plato, and Plato and Aristotle came to lock horns again.

Aristotle's notes on logic (laid out in the Organon) remained the standard text on logic until the emergence of mathematical logic in the 19th century. Likewise, his classification of living things dominated. Western thinking throughout the Middle Ages, becoming the Christian scala naturae (the "ladder of nature"), or the Great Chain of Being. This depicted the whole of creation dominated by man, who stood second only to God. And during the Renaissance, Aristotle's empirical method of enquiry held sway.

In the 17th century, the debate between empiricists and rationalists reached its zenith after René Descartes published his Discourse on the Method Descartes, and Leibniz and Kant after him, chose the rationalist route, in response, Locke Berkeley, and Hume lined up as the empiricist opposition. Again, the differences between the philosophers were as much about temperament as they were about substance—the Continental versus the English, the poetic versus the academic, the Platonic versus the Aristotelian Although the debate died down in the 19th century, there has been a revival of interest in Aristotle in recent times, and a reappraisal of his significance. His ethics in particular have been of great appeal to modern philosophers, who have seen in his functional definition of "good" a key to understanding the way we use ethical language.

Aristotie



Born in Stagira, Chalcidice, in the northeast region of modern Greece, Aristotle was the son of a physician to the royal family of Macedon, and was educated as a member of the anstocracy. He was sent to Plato's Academy in Athens at the age of 17, and spent almost 20 years there both as a student and a teacher When Plato died, Aristotle left Athens for Ionia, and spent several years studying the wildlife of the area. He was then appointed tuter at the Macedonian court, where he taught the young Alexander the Great and continued his studies In 335 scg he returned to Athens, encouraged by

Alexander, and set up the Lycaum, a school to rival Plato's It was here that he did most of his writing, and formalized his ideas After A.exander died in 323 sez, anti-Macedonian feeling flared up in Athens, and Aristotle fled to Chalcis, on the island of Euboea, where he died the following year.

Key works

Organon, Physics (as compiled in book form in the 9th century).



DEATH IS NOTHING TO US

EPICURUS (341-270 ace)

IN CONTEXT

BRANCH

Ethica

APPROACH

Epicureanism

BEFORE

Late 5th century ace Socrates states that seeking knowledge and truth is the key to a worthwhile life.

c.400 ace Democratus and Leucippus conclude that the cosmos consists solely of atoms, moving in empty space.

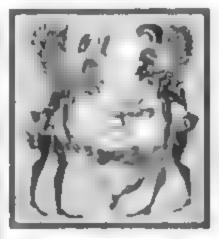
AFTER

c.50 mcm Rom an priosoptier Lucretius writes De rerum natura, a poem exploring Epicurus's ideas

1789 Jeremy Bentham advocates the utilitarian idea of "the greatest happiness for the greatest number,"

1861 John Stuart Mill argues that intellectual and spiritual pleasures have more value than physical pleasures

the principle of ancient cheese had already reached a pinnacle in the ideas of Plato and Aristotle. The main focus of philosophical thinking was shifting from metaphysics toward ethics—and also from political to personal ethics. Epicurus, however, found the seeds of a new school of thought in the quests of



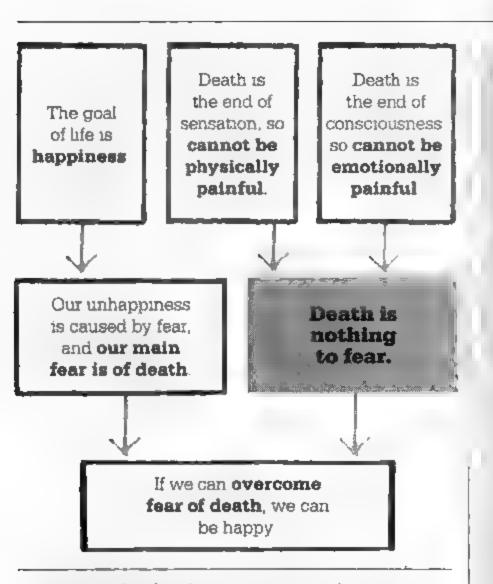
Terrifying images of the merciless god of death Thanatos were used to depict the pain and torment ancient Greeks might incur for their sins, both when they died and in the afterlife

earher philosophers, such as Socrates' examination of the truth of basic human concepts and values

Central to the philosophy that Epicurus developed is the view that peace of mind, or tranquility, is the goal of life. He argues that pleasure and pain are the roots of good and evil, and qualities such as virtue and justice derive from these roots, as "it is impossible to live a pleasant life without living wisely, honorably, and justly, and it is impossible to live wisely, honorably, and justly without living pleasantly" Epicureanism is often mistakenly interpreted as simply being about the pursuit of sensual pleasures For Epicurus, the greatest pleasure is only attainable through knowledge and friendship, and a temperate life, with freedom from fear and pain

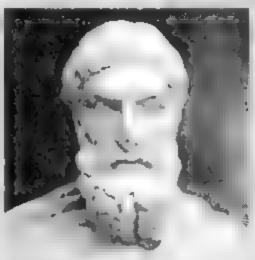
Feer of death

One of the obstacles to enjoying the peace of a tranquil mind, Epicurus reasons, is the fear of death, and this fear is increased by the religious belief that if you incur the wrath of the gods, you will be severely punished in the afterlife But rather than



countering this fear by proposing an alternative state of immortality, Epicurus tries to explain the nature of death itself. He starts by proposing that when we die, we are unaware of our death, since our consciousness (our soul) ceases to exist at the point of death. To explain this, Epicurus takes the view that the entire universe consists of either atoms or empty space, as argued by the atomist philosophers Democritus and Leucippus Epicurus then reasons that the soul could not be empty space because it operates dynamically with the body so it must be made up of atoms. He describes these atoms of the soul as being distributed around the body, but as being so fragile that they dissolve when we die, and so we are no longer capable of sensing anything If you are unable to feel anything, mentally or physically when you die it is foolish to let the fear of death cause you pain while you are still alive

Epicurus attracted a small but devoted following in his lifetime, but he was perceived as being dismissive of religion, which made him unpopular. His thinking was largely ignored by mainstream philosophy for centuries, but it resurfaced in the 18th century, in the ideas of Jeremy Bentham and John Stuart Mill. In revolutionary politics, the tenets of Epicureanism are echoed in the words of the United States. Declaration of Independence. "life, liberty, and the pursuit of happiness."



Epicurus

Born to Athenian parents on the Aegean island of Samos, Epicurus was first taught philosophy by a disciple of Plato. In 323 BCz, Alexander the Great died and, in the political conflicts that followed, Epicurus and his family were forced to move to Colophon (now in Turkey). There he continued his studies with Nausiphanes, a follower of Democritus.

Epicurus taught briefly in Mytilene on the island of Lesbos, and in Lampsacus on the Greek mainland, before moving to Athens in 306 scs. He founded a school, known as the The Garden, consisting of a community of friends and followers. There he set down in great detail the philosophy that was to become known as Epicureanism.

Despite frequent ill health, and often being in great pain. Epicurus lived to the age of 72. True to his beliefs, he described the last day of his life as a truly happy day.

Key works

Early 3rd century BCS On Nature Principal Doctrines, Vatican Sayings

MEDIEVAL ANDENALSSAND

as St Augustine of Hippo sought to integrate Greek philosophy into the Christian religion. This process was the main task of scholasticism an approach that stemmed from the monastic schools and was renowned for its rigorous dialectical reasoning. The work of scholastic philosophers such as Augustine was not so much an exploration of questions such as "Is there a God?" or "Does man have an immortal soul?" as a search for a rational justification for the belief in God and the soul

As the Roman Empire shrank and eventually fell, Europe sank into the Dark Ages and most of the culture it had inhented from Greece and Rome disappeared, The Church held the monopoly on learning, and the only true philosophy that survived was a form of Platonism deemed compatible with Christianity and Boethius's translation of Aristotle's Logic. Elsewhere, however, culture thrived. China and Japan enjoyed a golden age of poetry and art, while traditional Eastern philosophies co-existed happily with their religions. In the lands that had been part of Alexander the Great's empire, the Greek legacy commanded more respect. Arabic and Persian scholars

preserved and translated the works of the C.assical Greek philosophers, incorporating their ideas into Islamic culture from the 6th century onward

The rebirth of Europe

Eventually Islam spread westward into North Africa and Spain, and with it returned Greek mathematics and philosophy. This eventually led to the Renaissance, a cultural movement that began in Italy in the 14th century and placed humans rather than God at its center. This new humanism was first reflected in the art and then the political structure of Italian society, republics such as Florence and Venice soon abandoned medieval feudalism in favor of plutocracies in which commerce flourished alongside the new scientific discoveries.

By the end of the 15th century,
Renaissance ideas had spread across Europe,
but unsurprisingly the first truly Renaissance
philosopher was a Florentine—Niccolò
Machiavelli—and his philosophy marked a
definitive movement from the theological to
the political 'The final nail in the coffin of the
Church's authority came from empirical
science First Nicolaus Copernicus, then
Johannes Kepler and finally Galileo Galilei

ETHOUGHT

showed that the Ptolemaic model of the universe with Earth at its center was mistaken, and their demonstrations overturned centuries of Christian teaching This triumph of scientific discovery over Christian dogma epitomized the thinking of the 17th century, British philosophers, notably Francis Bacon and Thomas Hobbes, took the lead in integrating scientific and philosophical reasoning. It was the beginning of a period that became known as the Age of Reason, which produced the first great modern philosophers and revived the connection between philosophy and science, especially mathematics that dated back to pre-Socratic Greece

In Europe, many of the most significant philosophers were also accomplished mathematicians. In France, René Descartes and Blaise Pascal made major contributions to mathematics, as did Gottfried Leibniz in Germany. They believed that mathematical reasoning provided the best model for how to acquire all our knowledge of the world Descartes's investigation of the question "What can I know?" led him to a position of rationalism—the belief that knowledge comes from reason alone—which was to become the predominant belief in

continental Europe for the next century. At the same time, a very different philosophical tradition was being established in Britain Following the scientific reasoning espoused by Francis Bacon, John Locke came to the conclusion that our knowledge of the world comes not from reason, but experience. This view, known as empiricism, characterized British philosophy during the 17th and 18th centuries.

Despite the division between continental rationalism and British empiricism, both put the human being at the center of their enquiries. Both had moved from asking questions about the nature of the universewhich were being answered by scientists such as Isaac Newton—to questioning how we can know what we know, and they now began to investigate the nature of the human mind and self. But these new philosophical strands had moral and political implications Just as the Church's authority had been undermined by the ideas of the Renaissance, so the aristocracies and monarchies were threatened by the new ideas of the Enlightenment, as this period came to be known. If the old rulers were removed. from power, what sort of society was to replace them? ■



THE SOUL IS DISTINCT FROM THE BODY

AVICENNA (980-1037)

IN CONTEXT

BRANCH

Metaphysics

APPROACH

Arabic Aristotellanism

BEFORE

c.400 scr Plato argues that mind and body are distinct substances.

4th century BCE Aristotle argues that mind is the "form of the body

c.800-950 cr Anstotle's works are translated into Arabic for the first time

AFTER

1250s-60s Thomas Aguinas adapts Aristotle's account of the mind and body

1640 René Descartes argues for dualism in his Meditations

1949 Gilbert Ryle describes dualism.

as a "category mistake" in The

Concept of Mind

vicenna also known as Ibn Sînâ, is the most important philosopher in the Arabic tradition and one of the world's greatest thinkers. Like his predecessors al Kindî and al Fârâbî, and his successor. Averroes: Avicenna self-consciously marked himself out as a philosopher rather than an Islamic theologian, choosing to follow Greek.

If I were **blindfolded and suspended** in the air touching nothing ...

I would **not know** that I have a body.

But I would know that I my "self" or "soul"—exists.

So my soul is not a body but something different.

The soul is distinct from the body.

wisdom and the path of reasoning and proof. In particular, he saw himself as a follower of Aristotle, and his main writings are encyclopedias of Aristotelian philosophy.

However, these works explain
Aristotle's philosophy as re thought
and synthesized by Avicenna On some
doctrines, such as the idea that the

universe has always existed, Avicenna kept to the Aristotelian view despite the fact that it clashed with Islamic orthodoxy, but in other areas he felt free to depart radically from Aristotle. One striking example is his explanation of the relationship between mind (self or soul) and body.

Mind and body are distinct

Aristotle claims that the body and mind of humans (and other animals) are not two different things (or "substances"), but one unit, and that the mind is the "form" of the human body. As such, it is responsible for all the activities a human being can perform, including thinking. For this reason Aristotle does not seem to think it possible for anything to survive the death of the body.

By contrast, Avicenna is one of the most famous "dualists" in the history of philosophy—he thinks that the body and the mind are two distinct substances. His great predecessor in this view was Plato, who thought of the mind as a distinct thing that was imprisoned in the body. Plato believed that at the point of death, the mind would be released from its prison, to be later reincarnated in another body.

In seeking to prove the divided nature of mind and body. Avicenna devised a thought-experiment known as the "Flying Man". This appears as a treatise. On the Soul, within his Book of Healing and it aims to strip away any knowledge that can possibly be disproved, and leave us only with absolute truths. It remarkably anticipates the much later work of Descartes, the famous dualist of the 17th century, who also decided to believe nothing at all except that which he himself could know for certain. Both Avicenna and Descartes want to demonstrate that the mind or self exists because it knows it exists and that it is distinct from the human body.

The Flying Man

In the Flying Man experiment Avicenna wants to examine what we can know if we are effectively robbed of our senses, and cannot depend on them for information. He asks us each to imagine this suppose I have just come into existence but I have all my normal intelligence Suppose, too, that I am blindfolded and that I am floating in the air, and my limbs are separated from each other, so I can touch nothing Suppose I am entirely without any sensations. None the less, I will be sure that I myself exist. But what is this self, which is me? It cannot be any of the parts of my body, because »



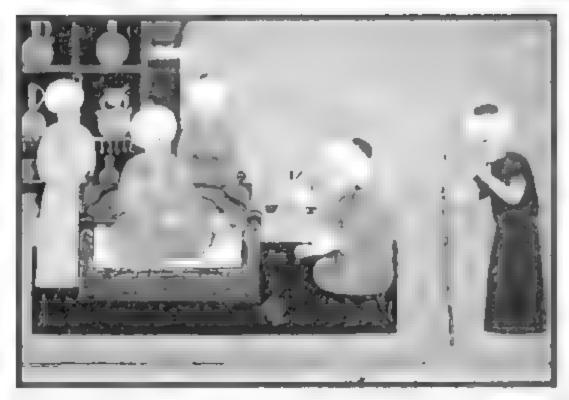
Avicenna

Ibn Sînâ, or Avicenna as the Europeans called him, was born in 980 in a village near Bukhara, now in Uzbekhistan. Although he wrote mainly in Arabic, the language of learning throughout the Islamic world, he was a native Persian speaker. Avicenna was a child produgy, rapidly surpassing his teachers not only in logic and philosophy, but also in medicine. While still in his teens, he became known to the Samanid ruler Nuh ibn Mansur as a brilliant physician, and was given the use of his magnificent library.

Avicenna's life was spent in the service of various princes, both as physician and political adviser. He started writing at the age of 21, and went on to write more than 200 texts, on subjects as diverse as metaphysics, animal physiology, mechanics of solids, and Arabic syntax. He died when his medications for colic were altered, possibly maliciously, while on campaign with his patron Alâ al-Dawla.

Key works

c.1014-20 Book of Healing c.1015 Canon of Medicine c.1030 Pointers and Reminders



Avicenna's medical knowledge was so vast that it won him royal patronage His Canon of Medicine influenced European schools of medicine until the mid 17th century

each of its parts corresponding to a part of the lens But the mind is not a sense organ what it grasps are definitions, such as "Man is a rational, mortal animal" The parts of this phrase

need to be grasped at once, together. The mind therefore cannot be in any way like or part of the body

I do not know that I have any The self that I affirm as existing does not have length or breadth or depth. It has no extension, or physicality. And, if I were able to imagine for instance, a hand, I would not think that it belonged to this self which I know exists

It follows from this that the human self—what I am—is distinct from my body, or anything physical. The Flying Man experiment, says Avicenna, is a way of alerting and reminding oneself of the existence of the mind as something other than, and distinct from, the body Avicenna also has other ways to show that the mind cannot be something material Most are based on the fact that the type of intellectual knowledge the mind can grasp cannot not be contained by anything material. It is easy to see how the parts of physical, shaped things fit with the parts of a physical, shaped sense organ the image of the wall that I see is stretched over the lens of my eye

The immortal soul

Avicenna goes on to draw the conclusion that the mind is not destroyed when the body dies, and that it is immortal. This did not help to make his thinking more palatable to orthodox Muslims, who believe that the whole person, body and mind, is resurrected and enjoys the afterlife Consequently, Avicenna was attacked in the 12th century by the great Islamic theologian al-Ghazálf, who called him a heretic for abandoning the central Islamic tenet of the resurrection of the dead. But in the same century Avicenna's work was also translated into Latin, and his dualism became popular among Christian philosophers and theologians They liked the way his interpretations of Aristotle's texts made them easily compatible with the idea of an immortal soul.

The secret conversation is a direct encounter between God and the soul. abstracted from all material constraints.

Carlos and Thursday a comparison of the

Avicenna

The indubitable self

Some 200 years later, in the 1250s, Thomas Aquinas championed a more faithful interpretation of Aristotle, in which the mind and body are much more closely tied together, and his views were widely accepted by the theologians of the 16th and 17th centuries But in 1640 Descartes returned to a dualism that was 6 6 But what is it that I am?
A thinking thing
René Descartes

nearer to Plato's than Amstotle's, and his argument for it was very like Avicenna's

Descartes imagines that there is a demon who is trying to deceive him about everything on which he might possibly be deceived. The one thing that he cannot be deceived about, he realizes, is that he exists. This self is exactly the self which Avicenna's Flying Man is sure of, when he has no other knowledge. Like Avicenna Descartes can then conclude that the "I", or self, is completely distinct from the body, and that it must be immortal.

The ghost in the machine

One very strong objection to the dualism of Avicenna or Descartes is the argument used by Aquinas. He says that the self which thinks is the same as the self which feels sensations in the body. For instance, I do not just observe that there is a pain in my leg, in the way that a sailor might notice a hole in his ship. The pain belongs to me as much as my thoughts about philosophy, or what I might have for lunch

Most contemporary philosophers reject mind-body dualism, largely because of the increasing scientific knowledge of the brain. Avicenna and Descartes were both very interested in physiology and they produced scientific accounts of activities such as movement and sensation But the process of rational thinking was inexplicable with the scientific tools of their times. We are now able to explain quite precisely how thinking goes on in different areas of the brain—though whether this means that we can explain thinking without reference to a self is not so clear. An influential 20th-century British philosopher, Gilbert Ryle, carroatured the dualists' self as "a ghost in the machine" and tried to show that we can explain how human beings perceive and function within the world without resorting to this "ghost" of a self

Today philosophers are divided between a small number of dualists, a larger number of thinkers who say that the mind is simply a brain, and the majority, who agree that thinking is the result of the physical activity of the brain, but still insist there is a distinction between the physical states of the brain (the gray matter, the neurons, and so on), and the thinking which derives from them

Many philosophers, especially continental European thinkers, still accept the results of Avicenna's thought experiment in one central way. It shows, they say, that we each have a self with a first-person view of the world (the "I") that cannot be accommodated by the objective view of scient.fic theories.



Philip
Puilman's tale,
Northern Lights,
picks up on the
ancient Greek
idea of a person's
soul, or daimon
being separate
to the body,by
presenting it
as an entirely
separate animal,
such as a cat



THE UNIVERSE HAS NOT ALWAYS EXISTED

THOMAS AQUINAS (c.1225-1274)

IN CONTEXT

BRANCH *

Metaphysics

APPROACH

Christian Aristotelian

BEFORE

c.340 BCE Aristotle says that the universe is eternal.

c.540 cr John Philoponus argues that -the universe must have a beginning

1250s-60s French theologians adopt Philoponus's argument.

AFTER .

1290s French philosopher Henry of Ghent criticizes Aquinas, saying the universe cannot have always existed

1781 Immanuel Kant claims he can show that the universe has always existed, and that it has not always existed.

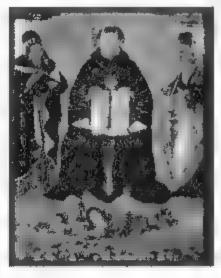
1931 Belgian priest and scientist Georges Lemaître proposes the "Big Bang" theory of the origins of the universe.

he opinions of people today are still divided into those that hold that the universe had a beginning, and those that hold that it has always existed. Today we tend to look to physics and astronomy for an answer, but in the past this was a question for philosophers and theologians.

The answer given by the Catholic priest and philosopher Thomas Aquinas, the most famous of all medieval Christian philosophers, is especially interesting. It is still a plausible way of thinking about the problem, and it also tells us a great deal about how Aquinas combined his faith with his philosophical reasoning despite their apparent contradictions.

Aristotle's influence

The central figure in Aquinas's thinking is Aristotle, the ancient Greek philosopher whose work was intensively studied by medieval thinkers. Aristotle was certain that the universe has always existed, and that it has always been home to different things, from mammate objects like rocks, to living species, such as humans, dogs, and horses. He argued that the universe is changing and moving, and this can only be caused by change and motion. So there could never have been a first change or motion, the universe must have been moving and changing for ever



Aquinas is
flanked by
Aristotle and
Plate in The
Triumph of
Thomas Aquinas
His understanding
of ancient
philosophy was
considered
greater than that
of Averroes, who
hes at his feet

Thomas Aquinas



Thomas Aquinas was born in 1225 at Roccasecca in Italy. He studied at the University of Naples

and then joined the Dominican order (a new. highly intellectual order of friars) against the wishes of his family. As a novitiate he studied in Paris and then in Cologne under the German Anstotelian theologian, Albert the Great. Returning to Paris, he became Master (professor) of theology. before leaving to travel around Italy teaching for 10 years. Unusually, Aguinas was then offered a second period of tenure as Master at Paris. In 1273 he experienced something that has been considered both some sort of vision and a possible stroke; after it, he said that all he had done was "mere straw", and he never wrote again. He died at the age of 49, and was recognized as a saint by the Catholic Church in 1323.

Key works

1256-59 Disputed
Questions on Truth
c.1265-74 Summa
Theologica
1271 On the Eternity
of the Universe

The great Arabic philosophers Avicenna and Averroes, were willing to accept Aristotle's view, even though it put them at odds with Islamic orthodoxy Medieval Jewish and Christian thinkers, however struggled to do so. They held that, according to the Bible, the universe has a beginning, so Aristotle must be wrong, the universe has not always existed. But was this view something that had to be accepted on faith, or could it be refuted by reasoning?

John Philoponus, a Greek Christian writer of the 6th century, believed that he had found an argument to show that Aristotle must be wrong, and that the universe had not always existed. His reasoning was copied and developed by a number of thinkers in the 13th century, who needed to find a flaw in Aristotle's reasoning in order to protect the teachings of the Church. Their line of argument was

especially clever because it took Aristotle's own ideas about infinity as a point of departure, but turned them against his view of the universe as eternal

An infinity of humans

Philoponus and his 13th-century followers however, think that this argument presents problems that Aristotle had not »

Aristotle says that the universe has always existed.

The world did have a beginning, but God could have created it in such a way that it existed eternally

The Bible says that the universe has not always existed noticed They point to the fact that he believes that all the types of living beings in the universe have always existed. If this were true, they say it would mean that there were already an infinite number of human beings by the time. Socrates was born—because if they have always existed they existed then. But since Socrates—time, many more humans have been born—and so the number of humans born up until now must be greater than infinity. But no number can be greater than infinity.

In addition, these writers add
Christian thinkers believe that human souls are immortal if this is so, and an infinite number of humans has already existed, there must be an infinite number of human souls in existence now. So there is an actual infinity of souls, not a potential infinity, and Aristotle has said actual infinity is impossible.

With these two arguments, using Aristotle's own principles as a starting point, Philoponus and his followers were confident they had demonstrated that the universe cannot always have existed Aristotle was therefore wrong, the universe is not eternal, and this fits perfectly with the Christian doctrine that God created the world

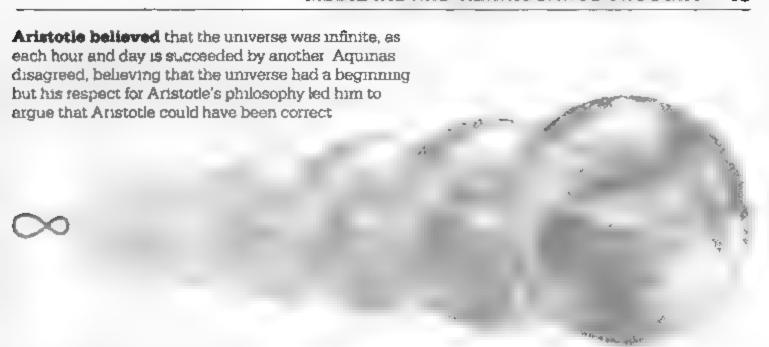
Aguinas has little time for this line of reasoning. He points out that the universe could have existed for ever but that species such as numans and other animals might have had a beginning. and so the difficulties raised by Philoponus and his followers can be avoided Despite his defence of Aristotle's reasoning, Aquinas does not accept Anstotle's assertion that the universe is eternal, because the Christian faith says otherwise, but he

Aquinas believed the creation story on faith, but claimed that some elements of Christian belief could be rationally demonstrated For Aquinas, the Bible and reason need never conflict doesn't think that Aristotle's position is illogical. Like Philoponus and his followers. Aquinas wants to show that the universe had a beginning—but he also wants to show that there is no flaw in Aristotle's reasoning. He claims that his Christian contemporaries have confused two different points, the first is that God created the universe, and the second is that the universe had a beginning. Aquinas set out to prove that in fact Aristotle's position—that the universe has always existed—could be true, even if it is also true that God created the universe.

Creating the eternal

Agumas steps away from Philoponus and his followers by insisting that although it is true, as the Bible says, that the universe had a beginning, this is not a necessary (undeniable) truth on logical grounds. As they all agree. God created the universe with a beginning, but he could just as easily have created an eternal one. If something is created by God, then it owes its whole existence to God, but that does not mean that there must have been a time when it did not exist at all. It is therefore quite possible to believe in an eternal universe that had been created by God.





Aquinas gives an example of how this might work. Suppose there was a foot making a footprint in the sand and it had been there for ever. Although there would never have been a moment before the footprint was made, we would still recognize the foot as the cause of the footprint, if it were not for the foot, there would not be a footprint.

Aquinas and synthesis

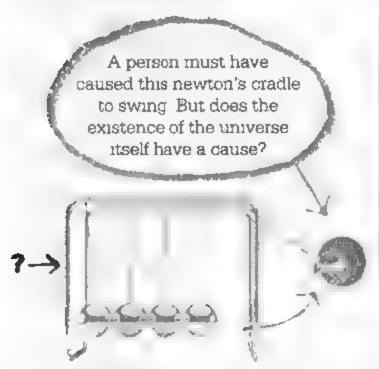
Historians sometimes say that Aguinas "synthesized" Christianity and Aristotelian philosophy, as if he took the parts he wanted from each and made them into a smooth mixture In fact, for Aguinasas for most Christians—the teachings of the Church must all be accepted, without exception or compromise. Aquinas was unusual, however, because he thought that, properly understood, Aristotle did not contradict Christian teaching. The question of whether the universe always existed is the exception that proves the rule. In this particular case Aguinas thinks that Aristotle was wrong, but he was not wrong in principle, or in his reasoning The universe really might have existed for ever, as far as the ancient philosophers knew It was just that Aristotle, not having access to Christian revelation, had no way of knowing that it had not. Aguinas believes that there are a number of other doctrines central to Christianity that the ancient philosophers did not know and could not have known-such as the belief that God is a Trinity made up of three

persons, and that one person of the Trimity, the Son, became a human But in Aquinas's opinion, whenever humans reason correctly, they cannot come to any conclusion which contradicts Christian doctrine. This is because both human reason and Christian teaching come from the same source—God—and so they can never contradict each other.

Aquinas taught in convents and universities in France and Italy, and the idea that human reason could never conflict with Christian doctrine often placed him in flerce conflict with some of his academic contemporaries, especially those who specialized in the sciences, which at the time were derived from the work of Aristotle Aquinas accused his fellow scholars of accepting certain positions on faith—for example, the position that we each have an immortal soul—but of saying at the same time that according to reason, these positions could be shown to be wrong

How we gain knowledge

Aquinas keeps to these principles throughout his work, but they are particularly clear in two central areas of his thought: his account of how we gain knowledge and his treatment of the relation between mind and body. According to Aquinas, human beings acquire knowledge through using their senses: sight, hearing, smell, touch, and taste. These sense-impressions, however, only tell us what things are like »



The laws of cause and effect lead us to look for the cause of any event, even the beginning of the universe Anstotle supposed that God set the universe into mot.on_and Aquinas agreed but added that the "Prime Mover"—God—must itself be uncaused

superficially For example from where John sits, he has a visual impression of a treeshaped object, which is green and brown I, on the other hand, am standing next to the tree, and can feel the roughness of its bark and smell the scent of the forest. If John and I were dogs, our knowledge of the tree would be limited to these sense-impressions. But as human beings we are able to go beyond them and grasp what a tree is in a fational way defining it and distinguishing it from other types of plants and of living things. Aquinas calls this "intellectual knowledge", because we gain it by using the innate power of our intellect to seize, on the basis of senseimpressions the reality that lies behind them. Animals other than humans lack this inborn capacity, which is why their knowledge cannot stretch beyond the senses All of our scientific understanding of the world is based on this intellectual knowledge Aguinas's theory of knowledge owes much to Anstotle, although ne clanfies and elaborates upon the latter's thinking For Aquinas, as a Christian thinker, human beings are only one type of the various sorts of beings that are capable of knowing things intellectually souls separated from their bodies in the afterlife, angels, and God nimself can also do this. These other knowing beings do not have to acquire knowledge through the senses
They can directly grasp the definitions of
things. This aspect of Aquinas's theory
has no parallel in Aristotle, but it is a
coherent development of Aristotle's
principles Once again Aquinas is able to
hold Christian benefs without contradicting
Aristotle, but going beyond him

The human soul

According to Aristotle, the intellect is the life-principle or "soul" of a human being. All living things have a soul, he believes which explains their capacity for different levels of what he calls "life-activity", such as growing and reproducing, for plants; moving, sensing, seeking, and avoiding, for animals; and thinking for humans.

Aristotle believes that "form" is what makes matter into the thing that it is. Within the human body, this form is the soul, which makes the body into the living thing that it is by giving it a particular set of life-activities. As such, the soul is tied to the body and so Aristotle thinks that, even in the case of humans, the life-soul survives only so long as it animates a body and at death it perishes

Aguinas follows Aristotle's teaching about living things and their souls, and he insists that a human being has just one form his or her intellect. Although other 13th- and 14th-century thinkers also adopted the main lines of Aristotie's view, they cut the connection Aristotle had made between the intellect and the body, so they could accommodate the Christian teaching that the human soul survives death. Aguinas, however, refuses to distort Aristotle's position. This made it far more difficult for him to argue—as he did—for the immortality of the human soul, in yet another example of his resolve to be a good Anstotelian, and philosopher, while remaining a faithful Christian.

After Aquinas

Since the Middle Ages, Aquinas has come to be regarded as the official orthodox philosopher of the Catholic Church. In his own time, when translations of Greek philosophy were being made from Arabic complete with Arabic commentaries, he was one of the thinkers keenest to follow

Anstotle's train of philosophical reasoning, even when it did not fit neatly with Christian doctrine. He always remained faithful to the Church's teachings, but this did not prevent his thought from almost being condemned as heretical shortly after his death. The great thinkers and teachers of the following century, such as the secular philosopher Henry of Ghent, and the Franciscans John Duns Scotus and William of Ockham, were all far more willing to say that purely philosophical reasoning as best represented by Aristotle's arguments, is often mistaken

Scotus thought that Agumas's Aristotelian view of the soul was inadequate, and Ockham rejected Aristotle's account of knowledge almost entirely. Henry of Ghent explicitly criticized Aguinas's view that God could have created a universe that always exists If it always existed, he argued, there would be no possibility of its not existing and so God would not have been free to create or not create it. Aquinas's supreme confidence in the power of reason meant that he had more in common with the greatest philosopher of the previous century, the French philosopher and theologian Pierre Abélard, than he did with his contemporaries and successors

Coherent belief

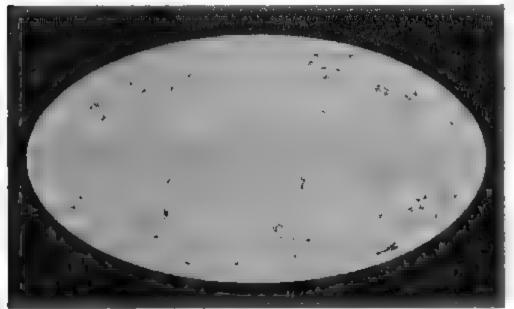
Both Aquinas's general view on the relation between philosophy and Christian doctrine, and his particular treatment of the eternity of the universe, remain relevant in the 21st century Today few philosophers believe that religious positions, such as the existence of God or the immortality of the soul, can be proved by philosophical reasoning. But what some claim for philosophy is that it can demonstrate that although religious believers hold certain doctrines as a matter of faith, their overall views are no less rational or coherent than those of agnostics or atheists. This view is an extension and development of Aquinas's constant endeavor to develop a philosophically coherent system of thought, while holding on to his Christian beliefs. Reading Aquinas's works is a lesson in tolerance, for Christians and non-Christians alike.

The role of philosophy

Today we do not look to philosophy to ted us whether or not the universe has always existed, and most of us do not turn to the Bible, as Aguinas and other medieval philosophers did Instead we look to physics, in particular to the theory of the "Big Bang" proposed by modern scientists, including the British physicist and cosmologist Stephen Hawking This theory states that the universe expanded from a state of extremely high temperature and density at a particular point in time Though most of us now turn to science for an explanation of how the universe began, the arguments of Aquinas show that philosophy is still relevant to how we think about the subject He demonstrates how philosophy can provide the tools for intelligent enquiry, allowing us to investigate not what happens to be the case, but what is possible and what is impossible, and what

are intelligible questions to ask is it or is it not coherent to believe that the universe had a beginning? This is still a question for philosophers, and no amount of theoretical physics will be able to answer it.

Cosmic background radiation provides evidence of the "Big Bang" that started the universe, but we can still argue, like Aquinas, that this was not the only possible way for it to exist





THE END JUSTIFIES THE MEANS

NICCOLO MACHIAVELLI (1469-1527)

IN CONTEXT

BRANCH

Political philosophy

APPROACH

Realism

BEFORE

5th century BCE Plato argues in his Republic that the state should be governed by a philosopher-king.

1st century set The Roman writer Cicero argues that the Roman Republic is the best form of government.

AFTER

16th century Machiavelli's peers begin to use the adjective "Machiavellian" to describe acts of devious cunning

1762 Jean-Jacques Rousseau argues that people should hold on to their liberty and resist the rule of princes.

1928 Italian dictator Benito Mussolini describes *The Prince* as "the statesman's supreme guide."

n order fully to understand Machiavelli's views on power, it is necessary to understand the background to his political concerns. Machiavelli was born in Florence, Italy, during a time of almost constant upheaval. The Medici family had been in open but unofficial control of the

The success of a state or nation is paramount

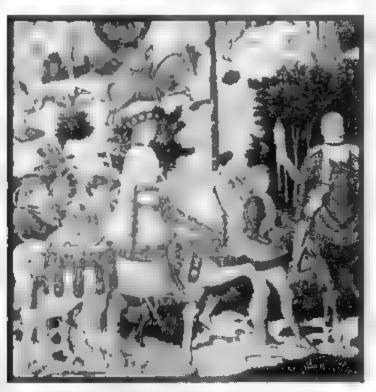
Whoever governs the state or nation must strive to secure

this or her own glory the success of the state

In order to do this, they cannot be bound by morality

The end justifies the means.

city-state for some 35 years, and the year of Machiavelin's birth saw Lorenzo de' Medici (Lorenzo the Magnificent) succeed his father as ruler, ushering in a period of great artistic activity in Florence. Lorenzo was succeeded in 1492 by his son Piero (known as Piero the Unfortunate), whose reign was short-lived. The French under Charles VIII invaded Italy in considerable force in 1494, and Piero was



Lorenzo the Magnificent (1449-1492) effectively ruled Florence from the death of his father in 1469 until his death. Though he ruled as a despot, the republic flourished under his guidance.

forced to surrender and then flee the city, as the citizens rebelled against him. Florence was declared a republic that same year

The Dominican prior of the San Marco monastery, Girolamo Savonarola, then came to dominate Florentine political life. The city-state entered a democratic period under his guidance, but after accusing the pope of corruption Savonarola was eventually arrested and burnt as a heretic. This led to Machiavelli's first known involvement in Florentine politics, and he became Secretary to the second Chancery in 1498.

Career and influences

The invasion by Charles VIII in 1494 had sparked a turbulent period in the history of Italy which at the time was divided into five powers: the papacy, Naples, Venice, Milan, and Florence. The country was fought over by various foreign powers, mainly France, Spain, and the Holy Roman Empire. Florence was weak in the face of their armies, and Machiavelli spent 14 years travelling between various cities on diplomatic missions, trying to shore up the struggling republic.

In the course of his diplomatic activities, Machiavelli met Cesare Borgia, the illegitimate son of Pope Alexander VI. The pope was a powerful figure in northern Italy, and a significant threat to Florence Although Cesare was Florence's enemy, Machiavelli—despite his republican views—was impressed by his vigor, intelligence, and ability. Here we see one of the sources for Machiavelli's famous work, The Prince

Pope Alexander VI died in 1503, and his successor Pope Julius II was another strong and successful man who impressed Machiavelli with both his military ability and his cumning But tension between France and the papacy led to Florence fighting with the French against the pope and his allies, the Spanish. The French lost, and Florence with them. In 1512 the Spanish dissolved the city-state a government, the Medicis returned, and what was in effect a tyranny under Cardinai de' Medici was installed. Machiavelli was fired from his political office and exted to his farm in Florence His political career might have revived under the rule of the Medicis, but in February 1513 he was falsely implicated in a plot against the family, and he was tortured, fined, and imprisoned

Machiavelli was released from prison within a month, but his chances of re-employment were slim, and his attempts to find a new political position came to nothing. He decided to present the head of the de' Medici family in Florence. Giuliano, with a book. By the time it was ready Giuliano had died, so Machiavelli changed the dedication to Giuliano's successor, Lorenzo. The book was of a type popular at the time advice to a prince.

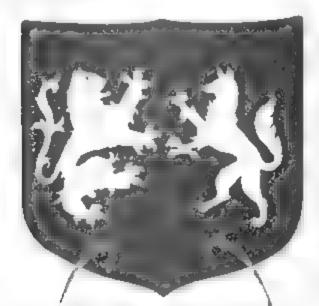
The Prince

Machiavelli's book The Prince was witty and cynical, and showed a great understanding of Italy in general and Florence in particular. In it, Machiavelli sets out his argument that the goals of a niler justify the means used to obtain them. The Prince differed markedly from other books of its type in its resolute setting aside of Christian morality. Machiavelli wanted to give ruthlessly practical advice to a prince and, as his experience with extremely successful popes and cardinals had shown him, Christian values should be cast.»

aside if they got in the way Machiavelh's approach centers on the notion of virtù, but this is not the modern notion of moral virtue It shares more similarities with the medieva. notion of virtues as the powers or functions of things, such as the healing powers of plants or minerals. Machiavelli is writing about the virtues of princes, and these were the powers and functions that concerned rule. The Latin root of virtù also relates it to manliness (as in "virile"), and this feeds into what Machiavelli has to say in its application both to the prince himself and to the state—where sometimes virtù is used to mean "success", and describes a state that is to be admired. and imitated

Part of Machiavelli's point is that a ruler cannot be bound by morality, but must do what it takes to secure his own glory and the success of the state over which he rules—an approach that became known as realism. But

A ruler needs to know how to act like a beast. Machiavelli says in The Prince and must imitate the qualities of the fox as well as the Lon



A ruler must have the ferocity of the lion to frighten those who seek to depose him.

> A ruler must have the cunning of the fox to recognize snares and traps

The world has become more like that of Machiavelli.

Bertrand Russell (



Machiavelli does not argue that the end justifies the means in all cases. There are certain means that a wise prince must avoid, for though they might achieve the desired ends, they ay him open to future dangers

The main means to be avoided consist of those that would make the people hate their prince. They may love him, they may fear him -preferably both, Machiavelli says, though it is more important for a prince to be feared than to be loved. But the people must not hate him, for this is likely to lead to rebellion. Also, a prince who mistreats his people unnecessarily will be despised—a prince should have a reputation for compassion, not for cruelty. This might involve harsh punishment of a few in order to achieve general social order, which benefits more people in the long run.

In cases where Machiavelli does think that the end justifies the means, this rule applies only to princes. The proper conduct of citizens of the state is not at all the same as that of the prince. But even for ordinary citizens, Machiavelli generally disdains conventional Christian morality as being weak and unsuitable for a strong city

Prince or republic

There are reasons to suspect that The Prince does not represent Machiavelli's own views Perhaps the most important is the disparity between the ideas it contains and those expressed in his other main work, Discourses on the Ten Books of Titus Livy In the Discourses Machiavelli argues that a republic is the ideal regime, and that it should be instituted whenever a reasonable degree of equality exists or can be established. A princedom is only suitable when equality does not exist in a state, and cannot be introduced However, it can be argued that The Prince represents Machiavelli's genuine

ideas about how the ruler should rule in such cases; if princedoms are sometimes a necessary evil, it is best that they be ruled as well as possible. Moreover, Machiavelli did believe that Florence was in such political turmoil that it needed a strong ruler to get it into shape.

Pleasing the readers

The fact that The Prince was written by Machiavelli in order to ingratiate himself with the Medicis is another reason to treat its contents with caution. However, he also dedicated the Discourses to members of Florence's republican government. Machiavelli, it could be argued, would have written what the dedicatee wanted to read.

The Prince, however, contains much that Machiavelli is thought to have genuinely believed, such as the need for a citizens' minitia rather than reliance on mercenaries. The problem lies in discerning which parts are his actual beliefs and which are not. It is tempting to divide them according to how well they fit with the intended reader's own beliefs, but that is unlikely to give an accurate result.

It has also been suggested that
Machiavelli was attempting satire, and his
real intended audience was the republicans
not the ruling elite. This idea is supported
by the fact that Machiavelli did not write it in



Ruthlessness has been a virtue of leadership throughout history. In the 20th century, the fascist dictator Benito Mussolini used a mixture of fear and love to hold on to power in Italy.

Latin, the language of the elite, but in Italian, the language of the people Certainly. The Prince at times reads satirically, as though the audience is expected to conclude. "If that is how a good prince should behave, we should at all costs avoid being fuled by one!" If Machiavelli was also satirizing the idea that "the end justifies the means", then the purpose of this small, deceptively simple book is far more intriguing than one might originally assume ...

Niccolò Machiavelli



Machiavelli was born in Florence in 1469 Little is known of the first 28 years of his life, apart from a few inconclusive

mentions in his father's diary, the first direct evidence is a business letter written in 1497. From his writings, though, it is clear that he received a good education, perhaps at the University of Florence

By 1498, Machiaveili had become a politician and diplomat of the Florentine Republic After his enforced retirement on the return of the Medicis to Florence in 1512, he devoted himself to various literary activities, as well as persistent attempts to return to the political arena Eventually he

regained the trust of the Medicis, and Cardinal Giulio de' Medici commissioned him to write a history of Florence. The book was finished in 1525, after the cardinal had become Pope Clement VII Machiavelli died in 1527, without achieving his ambition to return to public life.

Key works

1513 The Prince 1517 Discourses on the Ten Books of Titus Livy



KNOWLEDGE IS POWER

FRANCIS BACON (1561 -1626)

INCUNTEXT

BRANCH

Philosophy of science

APPROACH

Empiricism

BEFORE

4th century nex Aristotle sets observation and inductive reasoning at the center of scientific thinking.

13th century English scholars
Robert Grosseteste and Roger
Bacon add experimentation to
Aristotle's inductive approach
to scientific knowledge

AFTER:

• 1739 David Hume's Treatise
of Human Nature argues against
the rationality of inductive thinking.

1843 John Stuart Mills System of Logic outlines the five inductive principles that together regulate the sciences.

1934 Kerl Popper states that

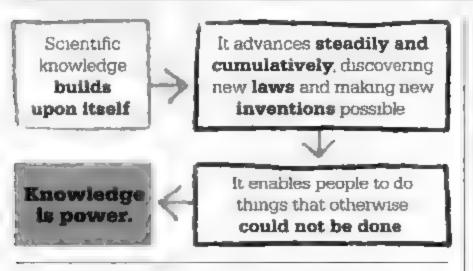
known as British empiricism, which is characterized by the view that all knowledge must come ultimately from sensory experience. He was born at a time



science, not religion, was regarded increasingly as the key to knowledge from the 16th century onward. This 1598 print depicts the observatory of Danish astronomer Tycho Brahe (1546–1601)

when there was a shift from the
Renaissance preoccupation with the
rediscovered achievements of the ancient
world toward a more scientific approach
to knowledge. There had already been
some innovative work by Renaissance
scientists such as the astronomer Nicolaus
Copernicus and the anatomist Andreas
Vesalius, but this new period—sometimes
called the Scientific Revolution—produced
an astonishing number of scientific
thinkers, including Galileo Galilei, William
Harvey, Robert Boyle, Robert Hooke, and
Isaac Newton

Although the Church had been broadly welcoming to science for much of the medieval period, this was halted by the rise of opposition to the Vatican's authority during the Renaissance Several religious reformers, such as Martin Luther, had complained that the Church had been too lax in countering scientific challenges to accounts of the world based on the Bible. In response, the Catholic Church, which had already lost adherents to Luther's new form of Christianity changed its stance and turned against



scientific endeavor. This opposition, from both sides of the religious divide, hampered the development of the sciences

Bacon claims to accept the teachings of the Christian Church. But he also argues that science must be separated from religion, in order to make the acquisition of knowledge quicker and easier so that it can be used to improve the quality of people's lives. Bacon stresses this transforming role for science. One of his complaints is that science's ability to enhance human existence had previously been ignored, in favor of a focus on academic and personal glory.

Bacon presents a list of the psychological barriers to pursuing scientific knowledge in terms that he carls collectively the "idols of the mind." These are the "idols of the tribe", the tendency of human beings as a species (or "tribe") to generalize, the "idols of the cave", the human tendency to impose preconceptions on nature rather than to see what is really there the "idols of the marketplace" our tendency to let social conventions distort our experience; and the "idols of the theater" the distorting influence of prevailing philosophical and scientific dogma. The scientist, according to Bacon, must battle against all these handicaps to gain knowledge of the world.

Scientific method

Bacon goes on to argue that the advancement of science depends on formulating laws of ever-increasing generality. He proposes a scientific method that includes a variation of this approach. Instead of making a series of observations, such as instances of metals that expand when heated, and then concluding that heat must cause all metals to expand, he stresses the need to test a new theory by going on to look for negative instances—such as metals not expanding when they are heated.

Bacon's influence led to a focus on practical experimentation in science. He was, however, criticized for neglecting the importance of the imaginative leaps that drive all scientific progress



Francis Bacon

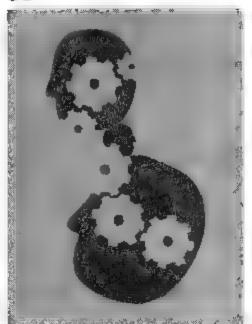
Born in London, Francis
Bacon was educated
privately, before being
sent to Trinity College,
Cambridge, at the age of
12. After graduation, he
started training as a lawyer,
but abandoned his studies
to take up a diplomatic
post in France. His father's
death in 1579 left him
impoverished, forcing him to
return to the legal profession.

Bacon was elected to parliament in 1584, but his friendship with the treasonous Earl of Essex held back his political career until the accession of James I in 1603. In 1618, he was appointed Lord Chancellor, but was dismissed two years later, when he was convicted of accepting bribes.

Bacon spent the rest of his life writing and carrying out his scientific work. He died from bronchitis, contracted while stuffing a chicken with snow, as part of an experiment in food preservation.

Key works

1605 The Advancement of Learning 1620 Novum Organum 1624 Nova Atlantis



MANISA MAGINE

THOMAS HOBBES (1588-1679)

IN CONTEXT

BRANCH

Metaphysics

APPROACH

Physicalism

BEFORE

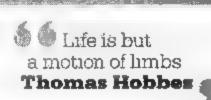
4th century BCE Aristotle disagrees with Plato's theory of a distinct human soul and argues that the soul is a form or function of the body

1641 René Descartes publishes his Meditations on First Philosophy, arguing that mind and body are completely different and distinct entities.

AFTER

- 1748 Julien Offray de la Mettrie's The Man Machine presents a mechanistic view of human beings.
- * 1949 Gilbert Ryle states that Descartes' idea that mind and body are separate "substances" is a "pategory mistake."

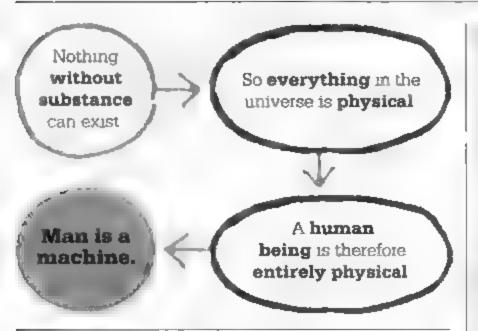
Ithough he is best known for his political philosophy. Thomas Hobbes wrote on a wide range of subjects. Many of his views are controversial, not least his defence of physicalism—the theory that everything in the world is



exclusively physical in nature, allowing no room for the existence of other natural entities such as the mind, or for supernatural beings. According to Hobbes, all animals, including humans, are nothing more than flesh-and-blood machines.

The kind of metaphysical theory that Hobbes favors was becoming increasingly popular at the time of his writing, in the mid-17th century Knowledge in the physical sciences was growing rapidly, bringing clearer explanations of phenomena that had long been obscure or misunderstood. Hobbes had met the Italian astronomer Galileo, frequently regarded as the "father of modern science", and had been closely associated with Francis Bacon, whose thinking had helped to revolutionize scientific practice.

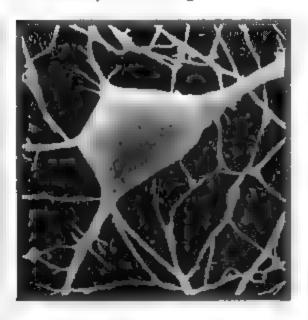
In science and mathematics,
Hobbes saw the perfect counter to
the medieval Scholestic philosophy
that had sought to reconcile the apparent
contradictions between reason and
faith. In common with many thinkers
of his time, he believed there was no
limit to what science could achieve,
taking it as a matter of fact that any



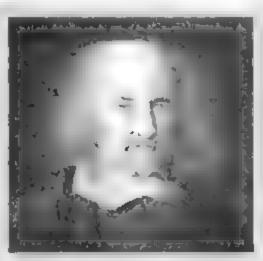
question about the nature of the world could be answered with a scientifically formulated explanation

Hobbes' theory

In Leviathan, his major political work, Hobbes proclaims: "The universe—that is, the whole mass of things that are—is corporeal, that is to say body He goes on to say that each of these bodies has "length, breadth, and depth", and "that which is not body is no part of the universe." Although Hobbes is stating that the nature of everything is purely physical, he is not claiming that because of this physicality everything can be perceived by us Some bodies or objects, Hobbes declares, are imperceptible, even though they occupy physical space and have physical dimensions. These, he calls spirits. Some of them, labelled "animal spirits (in line with a common view at the time) are responsible for most animal and especially human, activity. These animal spirits move around the body, carrying with them and passing on information, in much the same way as we now think of the nervous system doing »



Hobbes believed that "spirits" carried information needed to function around the body. We now know that this is done by electrical signals, travelling along the neurons of the nervous system.



Thomas Hobbes

Orphaned in infancy, Thomas Hobbes was fortunately taken in by a wealthy uncle, who offered him a good education. A degree from the University of Oxford earned him the post of tutor to the sons of the Earl of Devonshire This job gave Hobbes the opportunity to travel widely throughout Europe, where he met noted scientists and thinkers, such as the Italian astronomer Galileo Galilei as well as the French philosophers Marin Mersenne, Pierre Gassendi, and René Descartes.

In 1640, Hobbes fled to France to escape the English Civil War, staying there for 11 years. His first book, De Cive, was published in Pans in 1642. But it was his ideas on morality, politics, and the functions of society and the state, set out in Leviathan, that made him famous.

Also respected as a skilled translator and mathematician, Hobbes continued to write until his death at the age of 91.

Key works

1642 De Cive 1651 Leviathen 1656 De Corpore 1658 De Homine

Sometimes Hobbes seems to apply his concept of physical spirits to God and other entities found in religion, such as angels However, he does state that God himself, but not other physical spirits, should be described as "incorporeal." For Hobbes the divine nature of God's attributes is not something that the human mind is capable of fully understanding, therefore the term "incorporeal" is the only one that recognizes and also honors the unknowable substance of God. Hobbes does make clear, however, that he believes the existence and nature of all religious entities are matters for faith, not science, and that God, in particular, will remain beyond our comprehension. All it is possible for human beings to know about God is that he exists. and that he is the first cause, or creator of everything in the universe

What is consciousness?

Because Hobbes considers that human beings are purely physical and are therefore no more than biological machines, he is then faced with the problem of how to account for our mental nature. He makes no attempt to give an account of how the mind can be explained. He simply offers a general and rather sketchy account of what he thought science would eventually reveal to be the case. Even then, he only covers the mental activities such as voluntary motion, appetite, and aversion -all phenomena that can be studied and explained from a mechanistic point of view. Hobbes has nothing to say about what the modern day Australian philosopher David Chalmers calls "the hard problem of consciousness " Chalmers points out that certain functions of consciousness—such as the use of language and the processing of information—can be explained relatively easily in terms of the mechanisms that perform those functions and that physicalist philosophers have been offering variants of this approach for centuries However, the harder problem of explaining the nature of subjective, first-person experience of consciousness remains unsolved by them. There seems to be a built-in mismatch between the objects of the physical sciences on the one hand and

the subjects of conscious experience on the other—something that Hobbes does not seem to be aware of

Hopbes account of his belief offers very little argument for his conviction that everything in the world, including human beings, is wholly physical. He appears not to notice that his grounds for the existence of imperceptible material spirits could equally be grounds for a belief in nonmaterial substances. To most people, something being imperceptible is more consistent with a mental than with a physical concept. In addition, because Hobbes' material spirits can only ever possess the same properties as other types of physical thing, they fail to offer any assistance toward an explanation of the mental nature of human beings

Descartes' dualism

Hobbes also had to contend with the very different thinking about mind and body that Descartes set out in his Meditations of 1641 Descartes argues for the "Real Distinction" between mind and body—the notion that they are utterly distinct sorts of substance In objections to Descartes ideas that he expressed at the time. Hobbes makes no comment on this distinction However, 14 years later, he addressed the problem again in a passage in his book De Corpore, presenting and criticizing what seems to be a muddled form of part of Descartes' argument. Here he rejects the conclusion Descartes came to-that mind and body are two distinct substances—on the basis that Descartes' use of the phrase "incorporeal substance" is an example of insignificant or empty language Hobbes takes it to mean "a body without body", which appears to be

For what is the heart, but a spring, and the nerves, but so many strings; and the joints, but so many wheels, giving motion to the whole body

Thomas Hobbes



nonsense However, this definition must be based upon his own view that all substances are bodies; so what Hobbes appears to present as an argument for his position that there can be no incorporeal minds, in fact depends upon his inaccurate assumption that the only form of substance is body and that there is no possibility of incorporeal things existing at all

A simple prejudice

As Hobbes' definition of physica, spirits indicates it is ultimately unclear exactly what he took "physical" or "corporeal" to mean. If it was meant to be simply anything that had three spatial dimensions, then he would be excluding much of what we, at the beginning of the 21st century, might regard as being "physical." For example, his theories about the nature of the world would rule out the science of subatomic physics.

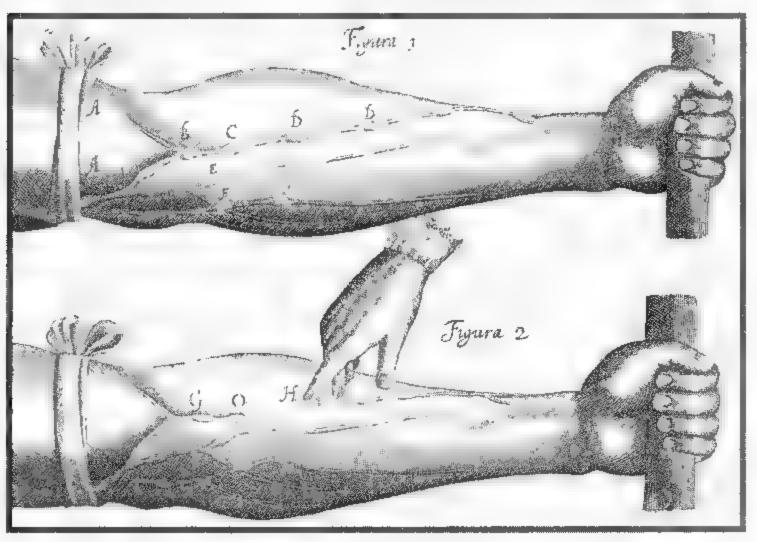
While Hobbes was formulating his mechanistic ideas, scientists such as the physician William Harvey were using empirical techniques to explore the workings of the human body

Besides sense, and thoughts, and the train of thoughts the mind of man has no other motion.

Thomas Hobbes 🚳 🧉



In the absence of any truly clear notion of what his key term means, Hobbes' insistence that everything in the world can be explained in physical terms begins to look less and less like a statement of scientific principle Instead, it starts to appear to be merely an unscientific—and unphilosophical-prejudice against the mental But his mechanistic theories about the nature of our world were very much in keeping with the spirit of an age that was to radically challenge most of the prevailing views on human nature and social order, as well as those concerned with the substance and workings of the universe that we inhabit. It was this revolution in thinking that laid the foundations of our modern world





I THINK THEREFORE I AM

RENE DESCARTES (1596-1650)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Rationalism

BEFORE .

4th century see Aristotle argues that whenever we perform any action, including thinking, we are conscious that we perform it, and in this way we are conscious that we exist.

c.420 cm St. Augustine writes in ... The City of God that he is certain he exists, because if he is mistaken, this itself proves his existence—in or left to be mistaken. The muttexist

AFTER ...

ené Descartes lived in the early
1 'transcription aper est
sometimes called the Scientific
Revolution, an era of rapid advances in
the sciences. The British scientist and
philosopher Francis Bacon had established
a new method for conducting scientific
experiments, based on detailed
observations and deductive reasoning.

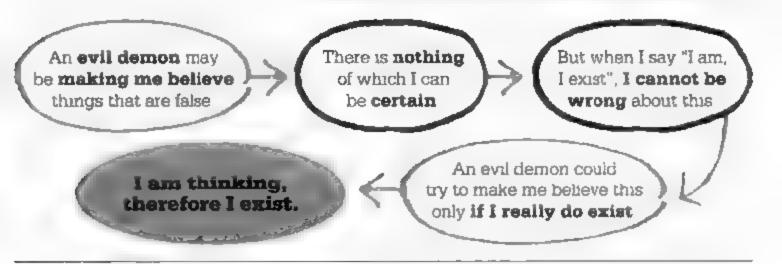


Descartes'
book De Homme
Figuris takes a
biological look
at the causes
of knowledge. In
it, he suggests
that the pineal
gland is the
link between
vision and
conscious action

and his methodologies had provided a new framework for investigating the world. Descartes shared his excitement and optimism, but for different reasons. Bacon considered the practical applications of scientific discoveries to be their whole purpose and point, whereas Descartes was more fascinated by the project of extending knowledge and understanding of the world.

During the Renaissance—the preceding historical era—people had become more skeptical about science and the possibility of genuine knowledge in general, and this view continued to exert an influence in Descartes' time. So a major motivation of his "project of pure enquiry", as his work has become known, was the desire to rid the sciences of the annoyance of skepticism once and for all

In the Meditations on First Philosophy, Descartes' most accomplished and rigorous work on metaphysics (the study of being and reality) and epistemology (the study of the nature and limits of knowledge), he seeks to demonstrate the possibility of knowledge



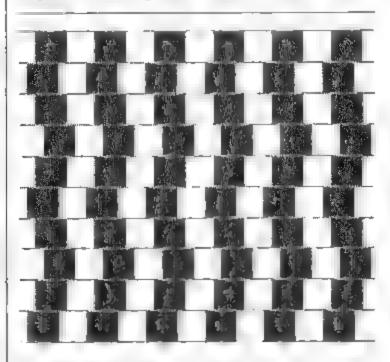
even from the most skeptical of positions, and from this, to establish a firm foundation for the sciences. The Meditations is written in the first-person form-"I think..."-because he is not presenting arguments in order to prove or disprove certain statements, but mstead wishes to lead the reader along the path that he himself has taken. In this way the reader is forced to adopt the standpoint of the meditator, thinking things through and discovering the truth just as Descartes had done. This approach is reminiscent of the Socratic method, in which the philosopher gradually draws out a person's understanding rather than presenting it already packaged and ready to take away

The illusory world

In order to establish that his beliefs have stability and endurance, which Descartes takes to be two important marks of knowledge, he uses what is known as "the method of doubt." This starts with the meditator setting aside any belief whose truth can be doubted whether slightly or completely. Descartes' aim is to show that, even if we start from the strongest possible skeptical position, doubting everything, we can still reach knowledge The doubt is "hyperbolic" (exaggerated) and used only as a philosophical tool, as Descartes points out: "no sane person has ever seriously doubted these things"

Descartes starts by subjecting his beliefs to a series of increasingly rigorous skeptical arguments, questioning how we can be sure of the existence of anything at all. Could it be that the world we know is just an illusion? We cannot trust our senses, as we have all been "deceived" by them at one time or another, and so we

cannot rely on them as a sure footing for knowledge. Perhaps, he says, we are dreaming, and the apparently real world is no more than a dream world. He notes that this is possible, as there are no sure signs between being awake or asleep. But even so, this situation would leave open the possibility that some truths, such as mathematical axioms, could be known though not through the senses. But even these "truths" might not in fact be true, because God, who is all-powerful, could deceive us even at this level. Even though we believe that God is good, it is possible that he made us in such a way that we are prone to errors in our reasoning. Or perhaps there is no God-in which case we are even more likely to be imperfect beings (having arisen only by chance) that are capable of being deceived all the time »



An optical illusion of parallel lines that are made to look bent can fool our senses. Descartes thinks we must accept nothing as true or given but must instead strip away all preconceptions before we can proceed to a position of knowledge



An evil demon capable of deceiving humankind about everything cannot make me doubt my existence; if he tries, and I am forced to question my own existence, this only confirms it

Having reached a position in which there seems to be nothing at all of which he can be certain. Descartes then devises a vivid tool to help him to avoid slipping back into preconceived opinion; he supposes that there is a powerful and evil demon who can deceive him about anything. When he finds himself considering a belief, he can ask "Could the demon be making me believe this even though it was false?" and if the answer is yes" he must set aside the belief as open to doubt

At this point, it seems as though Descartes has put himself into an impossible position—nothing seems beyond doubt, so he has no sould ground on which to stand. He describes himself as feeling helplessly tumbled around by a whirlpool of universal doubt, unable to find his footing. Skepticism seems to have made it impossible for him even to begin his journey back to knowledge and truth

The First Certainty

It is at this point that Descartes realizes that there is one belief that he surely cannot doubt, his belief in his own existence. Each of us can think or say "I am I exist", and while we are thinking or saying it we cannot be wrong about it

I shall suppose that some malicious demon of the utmost power and cunning has employed all his energies in order to deceive me

René Descartes



When Descartes tries to apply the evil demon test to this belief, he realizes that the demon could only make him believe that he exists if he does in fact exist how can be doubt his existence unless. he exists in order to do the doubting?

This axiom "I am. I exist" forms Descartes' First Certainty In his earlier work the Discourse on the Method, he presented it as: "I think therefore I am", but he abandoned this wording when he wrote the Meditations, as the inclusion of "therefore" makes the statement read like a premise and conclusion. Descartes wants the reader—the meditating "I"—to realize that as soon as I consider the fact that I exist. I know it to be true. This truth is instantly grasped. The realization that I exist is a direct intuition, not the conclusion of an argument.

Despite Descartes' move to a clearer expression of his position, the earlier formulation was so catchy that it stuck in people's minds, and to this day the First Certainty is generally known as "the cogito", from the Latin cogito ergo sum, meaning "I think therefore I am " St Augustine of Hippo had used a very similar argument in The City of God, when he said. "For if I am. mistaken, I exist"; meaning that if he did not exist, he could not be mistaken. Augustine. however, made little use of this in his thinking, and certainly did not reach it in the way that Descartes did

What use, though, is a single belief? The simplest logical argument is a syllogism which has two premises and a conclusion such as: all birds have wings; a robin is a bird, therefore all robins have wings. We surely cannot get anywhere from the starting point of just one true belief. But Descartes was not looking to reach these

kinds of conclusions from his First Certainty
As he explained. "Archimedes used to
demand just one firm and immovable
point in order to shift the entire Earth."
For Descartes, the certainty of his own
existence gives him the equivalent; it
saves him from that whirlpool of doubt,
gives him a firm foothold, and so allows
him to start on the journey back from
skepticism to knowledge. It is crucial to
his project of enquiry, but it is not the
foundation of his epistemology.

What is this "I"?

Despite the fact that the First Certainty's main function is to provide a firm footing for knowledge, Descartes realizes that we might also be able to gain knowledge from the certainty itself. This is because the knowledge that I am thinking is bound up with the knowledge of my existence. So "thinking" is also something that I cannot rationally doubt, for doubting is a kind of thinking, so to doubt that I am thinking is to be thinking. As Descartes now knows that he exists and that he is thinking, then he—and every other meditator—also knows that he is a thinking thing.

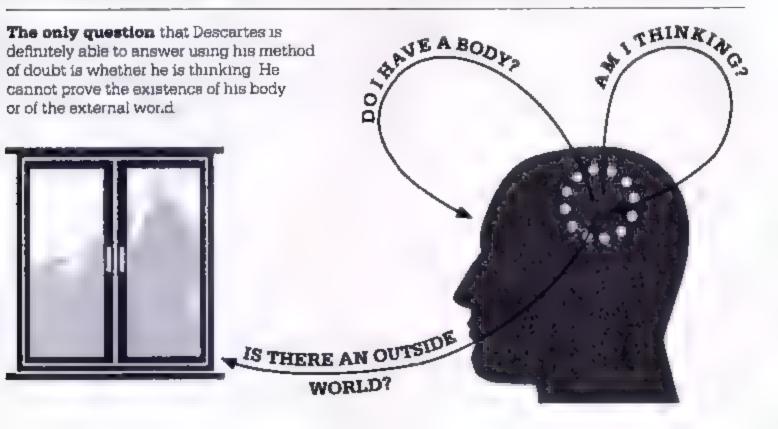
Descartes makes clear, though, that this is as far as he can reason from the First Certainty. He is certainly not entitled to say that he is only a thinking thing—a mind as he has no way of knowing what more he

might be He might be a physical thing that also has the ability to think, or he might be something else, something that he has not even conceived yet. The point is that at this stage of his meditations he knows only that he is a thinking thing, as he puts it, he knows only that he is, "in the strict sense only" a thinking thing. Later, in the sixth book of the Meditations. Descartes presents an argument that mind and body are different sorts of thing—that they are distinct substances—but he is not yet in a position to do so.

Doubting Descartes

This First Certainty has been the target of criticism from many writers who hold that Descartes' approach to skepticism is doomed from the start. One of the main arguments against it takes issue with the very use of the term "I" in "I am. I exist." Although Descartes cannot be wrong in saying that thinking is occurring, how does he know that there is "a thinker"—a single, unified consciousness doing that thinking? What gives him the right to assert the existence of anything beyond the thoughts? On the other hand, can we make sense of the notion of thoughts floating around without a thinker?

It is difficult to imagine detached, coherent thoughts, and Descartes argues that it is impossible to conceive of such a »



7*** ** * * * * * *

When someone says 'I am thinking, therefore I am', he recognizes it as something self-evident by a simple intuition of the mind

René Descartes



state of affairs. However, if one were to disagree, and believe that a world of thoughts with no thinkers is genuinely possible, Descartes would not be entitled to the belief that he exists and would thus fail to reach his First Certainty The existence of thoughts would not give him the solid ground he needed

The problem with this notion of thoughts floating around with no thinker is that reasoning would be impossible In order to reason it is necessary to relate ideas in a particular way. For example, if Patrick has the thought "all men are mortal" and Patricia has the thought "Socrates is a man" neither can conclude anything. But if Paula has both thoughts, she can conclude that "Socrates is mortal." Merely having the thoughts "all men are mortal" and "Socrates is a man" floating around is

like two separate people having them in order for reason to be possible we need to make these thoughts relative to one another, to link them in the right way it turns out that making thoughts relative to anything other than a thinker (for example, to a place or to a time) fails to do the job And since reasoning is possible, Descartes can conclude that there is a thinker

Some modern philosophers have denied that Descartes' certainty of his own existence can do the job he requires of it, they argue that "I exist" has no content as it merely refers to its subject but says nothing meaningful or important about it, it is simply pointing at the subject. For this reason nothing can follow from it, and Descartes' project fails at the beginning This seems to miss Descartes' point, as we have seen, he does not use the First Certainty as a premise from which to derive further knowledge—all he needs is that there be a self for him to point to. So even if I exist" only succeeds in pointing to the meditator, then he has an escape from the whirlpool of doubt

An unreal thinker

For those who have misunderstood Descartes to have been offering an argument from the fact of his thinking to the fact of his existence, we can point

René Descartes



René Descartes was born near Tours, France, and was educated at the Jesuit Collège Royale, in La Flèche Due to ill-health, he was allowed to stay in bed until late in the mornings, and he formed the habit of ... meditating From the age of 16 he concentrated on studying mathematics. breaking off his studies for four years to volunteer as a soldier in Europe's Thirty Years War. During this time he found his philosophical calling, and after leaving the army, he settled first in Paris and then in the Netherlands. where he spent most of the rest of his life. In 1649 he was invited to Sweden by Queen Christine to discuss philosophy, he was

expected to get up very early, much against his normal practice He believed that this new regimeand the Swedish climate -- caused him to contract pneumonia. of which he died a year later.

Key works

1637 Discourse on the Method 1641 Meditations on First Philosophy 1644 Principles of Philosophy 1662 De Homine Fuguris out that the First Certainty is a direct intuition, not a logical argument. Why though, would it be a problem if Descartes had been offering an argument?

As it stands, the apparent inference "I am thinking, therefore I exist" is missing a major premise, that is, in order for the argument to work it needs another premise, such as "anything that is thinking exists." Sometimes an obvious premise is not actually stated in an argument, in which case it is known as a suppressed premise. But some of Descartes' critics complain that this suppressed premise is not at all obvious. For example, Hamlet, in Shakespeare's play, thought a great deal, but it is also clearly true that he did not exist, so it is not true that anything that thinks exists

We might say that in so far as Hamlet thought, he thought in the fictional world of a play, but he also existed in that fictional world, in so far as he did not exist, he did not exist in the real world. His "reality" and thinking are linked to the same world But Descartes' critics might respond that that is precisely the point, knowing that someone called Hamlet was thinkingand no more than this-does not assure us that this person exists in the real world, for that, we should have to know that he was thinking in the real world. Knowing that something or someone—like Descartes is thinking, is not enough to prove their reality in this world

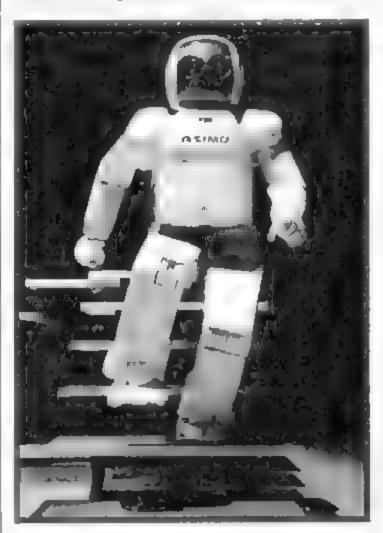
The answer to this dilemma lies in the first-person nature of the Meditations, and the reasons for Descartes' use of the "I" throughout now becomes clear. Because while I might be unsure whether Hamlet was thinking, and therefore existed, in a fictional world or the real world, I cannot be unsure about myself

Modern philosophy

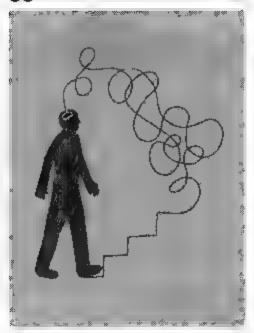
In the "Preface to the Reader" of the Meditations, Descartes accurately predicted that many readers would approach his work in such a way that most would "not bother to grasp the proper order of my arguments and the connection between them, but merely try to carp at individual sentences, as is the fashion "On the other hand, he also

wrote that "I do not expect any popular approval, or indeed any wide audience and in this he was much mistaken. He is often described as the father of modern philosophy He sought to give philosophy the certainty of mathematics without recourse to any kind of dogma or authority and to establish a firm, rational foundation for knowledge. He is also well known for proposing that the mind and the body are two distinct substances—one material (the body) and the other immaterial (the mind)—which are nonetheless capable of interaction. This famous distinction which he explains in the Sixth Meditation. became known as Cartesian dualism

However, it is the rigor of Descartes' thought and his rejection of any remance on authority that are perhaps his most important legacy. The centuries after his death were dominated by philosophers who either developed his ideas or those who took as their main task the refutation of his thoughts, such as Thomas Hobbes. Benedictus Spinoza, and Gottfried Leibniz.



The separation of mind and body theorized by Descartes leaves open the following question since all we can see of ourselves is our bodies how could we prove that a robot is not conscious?



IMAGINATION DECIDES EVERYTHING

BLAISE PASCAL (1623-1662)

IN CONTEXT

BRANCH
Philosophy of mind

APPROACH

Voluntarism

BEFORE

c.350 BCE Aristotle says that
"imagination is the process by which"
we say that an image is presented to
us, and that "the soul never thinks
without a mental image."

1641 René Descartes claims that the philosopher must train his imagination for the sake of gaining knowledge.

AFTER

1740 In his *Treatise of Human Nature*, David Hume argues that "nothing we imagine is absolutely impossible".

1787 Immanuel Kant claims that we synthesize the incoherent messages from our senses into images, and then into concepts, using the imagination

ascal's best-known book Pensées
is not primarily a philosophical work
Rather it is a compilation of fragments
from his notes for a projected book on
Christian theology His ideas were aimed
primarily at what he called libertins—
ex-Catholics who had left religion as a result
of the sort of free thinking encouraged by
skeptical writers such as Montaigne. In one

Imagination is a powerful force in human beings

> it can override our reason

But it can lead either to truths or falsehoods

We may see beauty justice, or happiness where it does not really exist

Imagination leads us astray.

of the longer fragments, Pascal discusses imagination. He offers little or no argument for his claims, being concerned merely to set down his thoughts on the matter

Pasca.'s point is that imagination is the most powerful force in human beings and one of our chief sources of error Imagination, he says, causes us to trust people despite what reason tells us. For example, because lawyers and doctors dress up in special clothes, we tend to trust them more Conversely, we pay less attention to someone who looks shabby or odd, even if he is talking good sense

What makes things worse is that, though it usually leads to falsehood imagination occasionally leads to truth if it were always false, then we could use it as a source of certainty by simply accepting its negation.

After presenting the case against imagination in some detail. Pascal suddenly ends his discussion of it by writing "Imagination decides everything it produces beauty justice and happiness which is the greatest thing in the world." Out of context, it might seem that he is praising imagination, but we can see from what preceded this passage that his intention is very different. As imagination usually leads to error. then the beauty justice and happiness that it produces will usually be false. In the wider context of a work of Christian theology, and especially in light of Pascal's emphasis on the use of reason to bring people to religious belief, we can see that his aim is to show the libertins that the life of pleasure that they have chosen is not what they think it is Although they believe that they have chosen the path of reason, they have in fact been misled by the power of the imagination

Pascal's Wager

This view is relevant to one of the most complete notes in the Pensées the famous argument known as Pascal's Wager The wager was designed to give the hbertins a reason to return to the Church, and it is a good example of "voluntarism", the idea that belief is a matter of decision Pascal accepts that it is not possible to give good rational grounds for religious belief but tries to offer rational grounds for wanting to have such beliefs. These consist of weighing up the possible profit and loss of making a bet on the existence of God Pascal argues that betting that God does not exist risks losing a great deal (infinite happiness in Heaven), while only gaining a little (a finite sense of independence in this world)---but betting that God exists risks little while gaining a great deal. It is more rational, on this basis, to believe in God .



According to
Pascal, we are
constantly tricked
by the imagination
into making the
wrong judgments
including
judgements about
people based
on how they
are dressed



Blaise Pascal

Blaise Pascal was born in Clermont-Ferrand, France He was the son of a government functionary who had a keen interest in science and mathematics and who educated Pascal and his two sisters Pascal published his first mathematical paper at the age of 16, and had invented the first digital calculator by the time he was 18 He also corresponded with the famous mathematician Pierre Fermat, with whom he laid the foundations of probability theory

Pascal underwent two religious conversions, first to Jansenism (an approach to Christian teaching that was later declared heretical), and then to Christianity proper. This led him to abandon his mathematical and scientific work in favour of religious writings, including the Pensées. In 1660-62 ha instituted the world's first public transport service, giving all profits to the poor, despite suffering from severe ill health from the 1650s until his death in 1662.

Key works

1667 Lettres Provinciales 1670 Pensées



GOD IS THE CAUSE OF ALL THINGS, WHICH ARE IN HIM BENEDICTUS SPINOZA (1632–1677)

IN CONTEXT

BRANCH Metaphysics

APPROACH
Substance monism

BEFORE

c.1190 Jewish philosopher
Moses Maimonides invents a
demythologized version of religion
which later inspires Spinoza.

16th century Italian scientist Giordano Bruno develops a form of pantheism.

1641 René Descartes publishes his Meditations, another of Spinoza's influences.

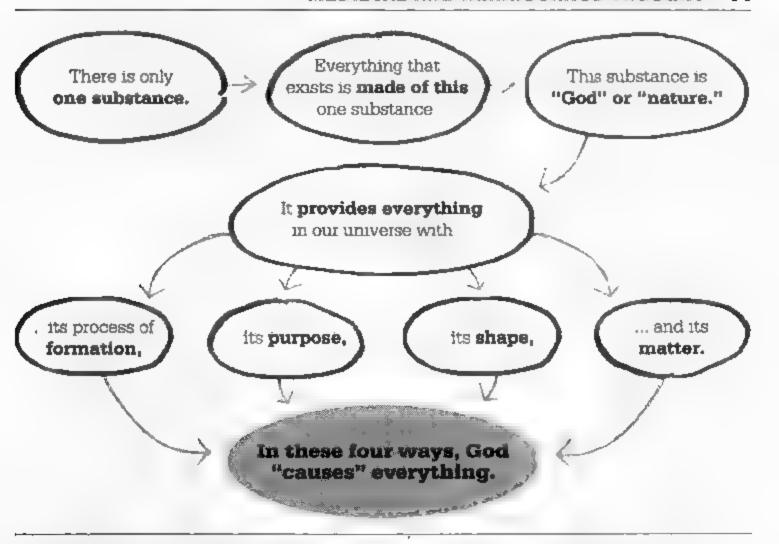
AFTER

Late 20th century Philosophers
Stuart Hampshire, Donald Davidson, and Thomas Nagel all develop approaches to the philosophy of mind that have similarities to Spinoza's monist thought.

century Spinoza's philosophical system has the notion of "substance" at its heart. This concept can be traced back to Aristotle, who asked "What is it about an object that stays the same when it undergoes change?" Wax, for example, can melt and change its shape, size, color,

smell, and texture and yet still remain "wax", prompting the question, what are we referring to when we speak of "the wax"? Since it can change in every way that we can perceive, the wax must also be something beyond its perceptible properties, and for Aristotle this unchanging thing is the wax's "substance" More generally, substance is anything that has properties—or that which underlies the world of appearance

Spinoza employs "substance" in a similar way, defining it as that which is self-explanatory-or that which can be understood by knowing its nature alone, as opposed to all other things that can be known only by their relationships with other things. For example, the concept "cart" can only be understood with reference to other concepts, such as "motion", "transport", and so on. Moreover, for Spinoza, there can only be one such substance, for if there were two. understanding one would entail understanding its relationship with the other, which contradicts the definition of substance Furthermore, he arques, since there is only one such substance, there can, in fact, be nothing but that substance, and everything else is in some sense a part of it. Spinoza's position is known as "substance monism", which claims that all things are ultimately aspects of a single thing, as opposed to "substance dualism", which claims that there are ultimately two kinds of things in the universe, most commonly defined as "mind" and "matter."



Substance as God or nature

For Spinoza, then, substance underlies our experience, but it can also be known by its various attributes. He does not specify how many attributes substance has, but he says that human beings, at least, can conceive of two-namely, the attribute of extension (physicality) and the attribute of thought (mentality). For this reason, Spinoza is also known as an "attribute dualist", and he claims that these two attributes cannot be explained by each other, and so must be included in any complete account of the world As for substance itself, Spinoza says that we are right to call it "God" or "nature" (Dous sive natura)—that self-explaining thing which, in human form, sees itself under the attributes of body and mind-At the level of individual things, including human beings, Spinoza's attribute dualism is intended in part to deal with the question of how minds and bodies interact. The things that we experience as individual bodies or minds are in fact modifications of the single substance as conceived under one of the attributes. Each modification is both a physical thing (in so far as it is conceived under the attribute of extension) and a mental thing (in so far as it is

conceived under the attribute of thought)
In particular, a human mind is a
modification of substance conceived under
the attribute of thought, and the human
brain is the same modification of substance
conceived under the attribute of extension
In this way, Spinoza avoids any question
about the interaction between mind and
body there is no interaction, only a one to
one correspondence

However, Spinoza's theory commits him to the view that it is not only human beings that are minds as well as bodies, but everything else too. Tables, rocks, trees—all of these are modifications of the one substance under the attributes of thought and extension. So, they are all both physical and mental things, although their mentality is very simple and they are not what we should call minds. This aspect of Spinoza's theory is difficult for many people either to accept or to understand.

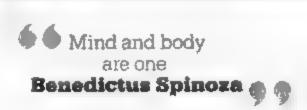
The world is God

Spinoza's theory, which he explains fully in *Ethics*, is often referred to as a form of pantheism—the belief that God is the world, and that the world is God Pantheism is often criticized by theists »



All changes, from a change of mood to a change in a candle a shape, are, for Spinoza, alterations that occur to a single substance that has both mental and physical attributes

(people who beneve in God), who argue that it is little more than atheism by another name. However, Spinoza's theory is in fact much closer to panentheism—the view that the world is God, but that God is more than the world. For in Spinoza's system, the world is not a mass of material and mental stuff—rather, the world of material things is a form of God as conceived under the attribute of extension, and the world of mental things is that same form of God as conceived under the attribute.



of thought. Therefore the one substance or God is more than the world, but the world itself is entirely substance or God

However, Spinoza's God is clearly different from the God of standard Judaeo-Christian theology. Not only is it not a person, it cannot be regarded as being the creator of the world in the sense found in the Book of Genesis Spinoza's God does not exist alone before creation, and then bring it into existence

God as the cause

What can Spinoza mean, then, when he says that God is the cause of everything? The one substance is "God or nature"—so even if there is more to God than those modifications of substance that make up our world, how can the relationship between God and nature be causal?

First, we should note that Spinoza, in common with most philosophers before him, uses the word "cause" in a much richer sense than we do now—a sense that

Benedictus Spinoza



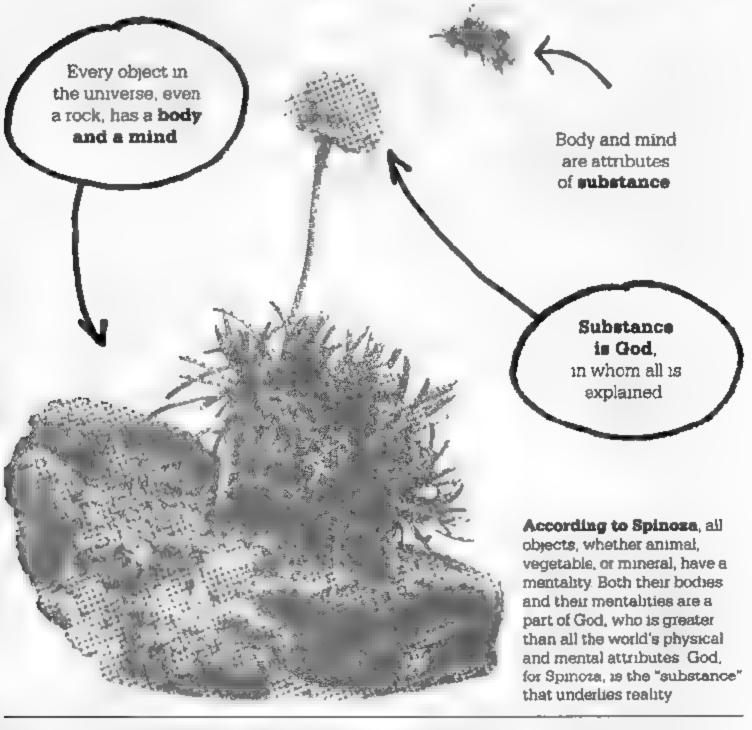
Benedictus (or Baruch) Spinoza was born in Amsterdam, the Netherlands, in 1632.

At the age of 23 he was excommunicated by the synagogue of Portuguese Jews in Amsterdam, who probably wished to distance themselves from Spinoza's teachings Spinoza's Theological-Political Treatise was later attacked by Christian theologians and banned in 1674 a fate that had already befallen the work of the French philosopher René Descartes. The furore caused him to withhold publication of his greatest work, the Ethics, until after his death.

Spinoza was a modest, intensely moral man who turned down numerous lucrative teaching positions for the sake of his intellectual freedom. Instead he lived a frugal life in various places in the Netherlands, making a living by private philosophy teaching and as a lens grinder. He died from tuberculosis in 1677.

Ley works

1670 Theological-Political Treatise 1677 Ethics



originates in Aristotle's definition of four types of cause. These are (using a statue as an example), a formal cause, or the relationship between a thing's parts (its shape or form), a material cause, or the matter a thing is made of (the bronze, marble, and so on); an efficient cause, or that which brings a thing into being (the sculpting process); and a final cause, or the purpose for which a thing exists (the creation of a work of art, the desire for money, and so on).

For Aristotle and Spinoza, these together define "cause", and provide a complete explanation of a thing—unlike today's usage, which tends to relate to the "efficient" or "final" causes only Therefore, when Spinoza speaks of God or substance being "self-caused" he means that it is

self-explanatory, rather than that it is simply self-generating. When he talks of God being the cause of all things, he means that all things find their explanation in God

God, therefore, is not what

Spinoza calls a "transitive" cause
of the world—something external
that brings the world into being
Rather, God is the "immanent"
cause of the world. This means that
God is in the world, that the world
is in God, and that the existence
and essence of the world are
explained by God's existence and
essence. For Spinoza, to fully
appreciate this fact is to estain the
highest state of freedom and salvation
possible—a state he calls "blessedness."



NO MAN'S KNOWLEDGE HERE CAN GO BEYOND HIS EXPERIENCE

JOHN LOCKE (1632-1704)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Empiricism

BEFORE

c.380 act in his dialogue, Meno, Plato argues that we remember knowledge from previous lives

Mid-13th century Thomas Agumas puts forward the principle that "whatever is in our intellect must have previously been in the senses"

AFTER

Late 17th century Gottfried Leibniz argues that the mind may seem to be a tabula rasa at birth, but contains innate, underlying knowledge, which experience gradually uncovers.

1966 Noam Chomsky, in Cartesian Linguistics, sets out his theory of innate grammar.

the group of philosophers known as the British Empiricists, together with two later philosophers, George Berkeley and David Hume. The empiricists are generally thought to hold the view that all human knowledge must come directly or indirectly from the experience of the world that we acquire through the use of our senses alone.

This contrasts with the thinking of the rationalist philosopheis, such as René Descartes, Benedictus Spinoza, and Gottfried Leibniz, who hold that in principle, at least, it is possible to acquire knowledge solely through the use of reason. In fact, the division between these two groups is not as clear-cut as is often assumed. The rationalists all accept that in practice our knowledge of the world ultimately stems from our excernence, and most notably from scientific enquiry. Locke reaches his distinctive views concerning the nature of the world by applying a process of reasoning later known as abduction (inference to the best explanation from the available evidence) to the facts of sensory experience For example Locke sets out to demonstrate that the best explanation of the world as we experience it is corpuscular theory. This is the theory that everything in the world is made up of submicroscopic particles, or corpuscles, which we can have no direct knowledge of but which, by their very existence, make sense of phenomena that would otherwise be difficult or impossible to explain Corpuscular theory was becoming popular in 17th-century scientific thinking and is fundamental to Locke's view of the physical world

Innate ideas

The claim that man's knowledge cannot go beyond his experience may therefore seem inappropriate, or at least an exaggeration, when attributed to Locke However, Locke does argue at some length, in his Essay Concerning Human Understanding,



against the theory proposed by the rationalists to explain how knowledge could be accessed without experience. This is the theory of innate ideas.

The concept that human beings are born with innate ideas, and that these can give us knowledge about the nature of the world around us, independently of anything we may experience, dates back to the dawn of philosophy Plate had developed a concept, according to which all genuine knowledge is essentially located within us, but that when we die our souls are reincarnated into new bodies and the shock of birth causes us to forget it all. Education is therefore not about learning new facts, but about "unforgetting", and the educator is not a teacher but a midwife

However, many later thinkers countered Plato's theory, proposing that all knowledge cannot be innate and that only a limited number of concepts can be. These include the concept of God and also that of a perfect geometric structure, such as an equilateral triangle. This type of knowledge, in their

view, can be gained without any direct sensory experience, in the way that it is possible to devise a mathematical formula by using nothing more than the powers of reason and logic. René Descartes, for example, declares that although he believes that we all have an idea of God imprinted in us—like the mark that a craftsman makes in the clay of a pot—this knowledge of God's existence can only be brought into our conscious mind through a process of reasoning

Locke's objections

Locke was against the idea that human beings possess any kind of innate knowledge. He takes the view that the mind at birth is a tabula tasa—a blank tablet or a new sheet of paper upon which experience writes, in the same way that light can create images on photographic film. According to Locke, we bring nothing to the process except the basic human ability to apply reason to the information that we gather through our senses. He argues that there is

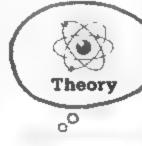
is not the slightest empirical evidence to suggest that the minds of infants are other than blank at birth, and adds that this is also true of the minds of the mentally deficient, stating that 'they have not the least apprehension or thought of them Locke, therefore, declares that any doctrine supporting the existence of innate ideas must be false

Locke also goes on to attack the very notion of innate ideas by arguing that it is incoherent. In order for something to be an idea at all, he states that it has to have been present at some point in somebody's mind But, as Locke points out, any idea that claims to be truly innate must also be claiming to precede any form of human experience Locke accepts that it is true, as Gottfried Leibniz states, that an idea may exist so deep in a person's memory that for a time it is difficult or even impossible to recall, and so is not accessible to the conscious mind. Innate ideas, on the other hand, are believed to somehow exist somewhere before the presence of any sort of mechanism that is capable of conceiving them and bringing them into consciousness

The supporters of the existence of innate ideas often also argue that as such ideas are present in all human beings at birth, they must be by nature universal, which means that they are found in all human societies at ail points in history Plate, for example, claims that everyone potentially has access to the

Locke believed the

human mind is like a blank canvas, or tabula rasa at birth. He states that all our knowledge of the world can only come from our experience, conveyed to us by our senses. We can then rationalize this knowledge to formulate new ideas.





perience



🌢 🏶 It seems to me a near contradiction to say that there are truths imprinted on the soul. which it perceives or understands not

John Locks



same basic body of knowledge, denying any difference in that respect between men and women or between slaves and freemen Similarly in Locke's time, the theory was frequently put forward that because innate ideas can only be placed in us by God, they must be universal, as God is not capable of being so unfair as to hand them out only to a select group of people Locke counters the argument for universal ideas by once again bringing to our attention that a simple examination of the world around us will readily show that they do not exist. Even if there were concepts, or ideas, which absolutely every human being in the world held in common, Locke argues that we would have no firm grounds for concluding that they were also innate. He declares that it would always be possible to discover other explanations for their universality, such as the fact that they stem from the most basic ways in which a human being experiences the world around him, which is something that we all must share

In 1704, Gottfried Leibniz wrote a rebuttal of Locke's empiricist arguments in his New Essays on the Human Understanding Leibniz declares that innate ideas are the one clear way that we can gain knowledge that is not based upon sensory experience, and that Locke is wrong to deny their possibility. The debate about whether human beings can know anything beyond what they perceive through their five basic senses continues

Language as innate

Although Locke may reject the doctrine of innate ideas, he does not reject the concept that human beings have innate capacities. Indeed, the possession of capacities such as perception and

Let us then suppose the mind to be white paper, void of all characters, without any ideas, how comes it to be furnished?

John Locke

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99

reasoning are central to his accounts of the mechanism of human knowledge and understanding. In the late 20th century, the American philosophy Noam Chomsky took this idea further when he put forward his theory that there is an innate process of thinking in every human mind, which is capable of generating a universal "deep structure" of language. Chomsky believes that regardless of their apparent structural differences, all human languages have been generated from this common basis

Locke played an important role in questioning how human beings acquire knowledge, at a time when man's understanding of the world was expanding at an unprecedented rate. Earlier philosophers—notably the medieval



As the mind is a blank canvas, or tabula rasa, at birth Locke believes that anybody can be transformed by a good education one that encourages rational thought and individual talents.

Scholastic thinkers such as Thomas
Aquinas—had concluded that some
aspects of reality were beyond the grasp
of the human mind. But Locke took this a
stage further. By detailed analysis of man's
mental faculties, he sought to set down the
exact limits of what is knowable.

John Locke



John Locke was born in 1632, the son of an English country lawyer Thanks to wealthy

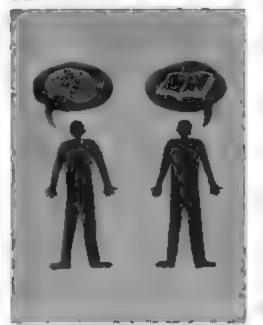
patrons, he received a good education, first at Westminster School in London, then at Oxford He was impressed with the empirical approach to science adopted by the pioneering chemist Robert Boyle, and he both promoted Boyle's ideas and assisted in his experimental work.

Though Locke's empiricist ideas are important, it was his political writing that made him famous. He proposed a social-contract theory of the legitimacy of government and the idea of natural rights to private

property. Locke fled England twice, as a political exile, but returned in 1688, after the accession to the throne of William and Mary. He remained in England, writing as well as holding various government positions, until his death in 1704.

Key works

1689 A Letter
Concerning Toleration
1690 An Essay
Concerning Human
Understanding
1690 Two Treatises of
Government



THERE ARE TWO KINDS OF TRUTHS: TRUTHS OF REASONING AND TRUTHS OF FACT

GOTTFRIED LEIBNIZ (1646-1716)

IN CONTEXT

BRANCH Epistemology

APPROACH

Rationalism

BEFORE

1340 Nicolaus of Autrecourt argues that there are no necessary truths about the world, only contingent truths.

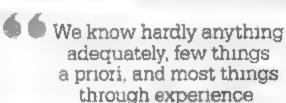
1600s René Descartes claims that ideas come to us in three ways, they can be derived from experience, drawn from reason, or known innately (being created in the mind by God)

AFTER

1748 David Hume explores the distinction between necessary and contingent truths.

1927 Alfred North Whitehead postulates "actual entities", similar to Leibniz's monads, which reflect the whole universe in themselves.

arly modern philosophy is often presented as being divided into two schools—that of the rationalists (including René Descartes, Benedictus Spinoza, and Immanuel Kant) and that of the empiricists (including John Locke, George Berkeley, and David Hume) In fact, the various philosophers did not easily fall



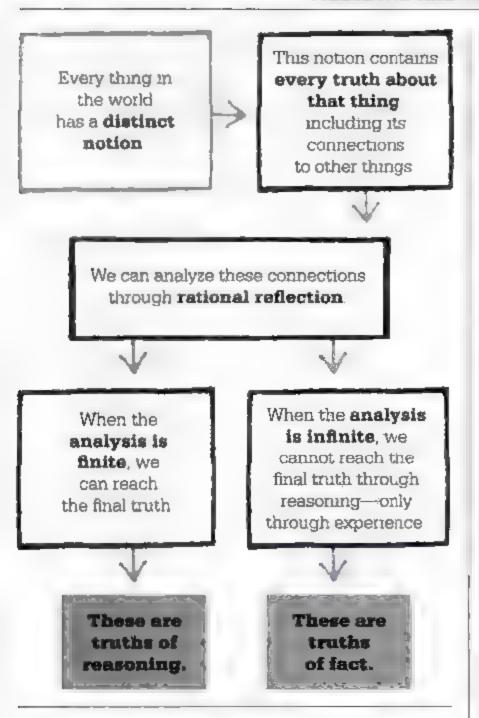
Leibniz

into two clear groups, each being like and unlike each of the others in complex and overlapping ways. The essential difference between the two schools, however, was epistemological—that is, they differed in their opinions about what we can know, and how we know what we know Put simply, the empiricists held that knowledge is derived from experience, while the rationalists claimed that knowledge can be gained through rational reflection alone.

Leibniz was a rationalist and his distinction between truths of reasoning and truths of fact marks an interesting twist in the debate between rationalism and empiricism. His claim, which he makes in most famous work, the Monadology, is that in principle all knowledge can be accessed by rational reflection. However, due to shortcomings in our rational faculties, human beings must also rely on experience as a means of acquiring knowledge.

A universe in our minds

To see how Leibniz arrives at this conclusion, we need to understand a little of his metaphysics—his view of how the



of the world, every individual thing, has a distinct concept or "notion" associated with it and that every such notion contains within it everything that is true about itself including its relations to other things. Because everything in the universe is connected, he argues, it follows that every notion is connected to every other notion, and so it is possible—at least in principle—to follow these connections and to discover truths about the entire universe through rational reflection alone. Such reflection leads to Leibniz's "truths of reasoning." However, the human mind can grasp only a small number of such truths (such as those of mathematics), and so it has to rely on experience, which yields "truths of fact."

So how is it possible to progress from knowing that it is snowing, for example, to knowing what will happen tomorrow somewhere on the other side of the world? For Leibniz, the answer lies in the fact that the universe is composed of individual, simple substances called "monads" Each monad is isolated >>



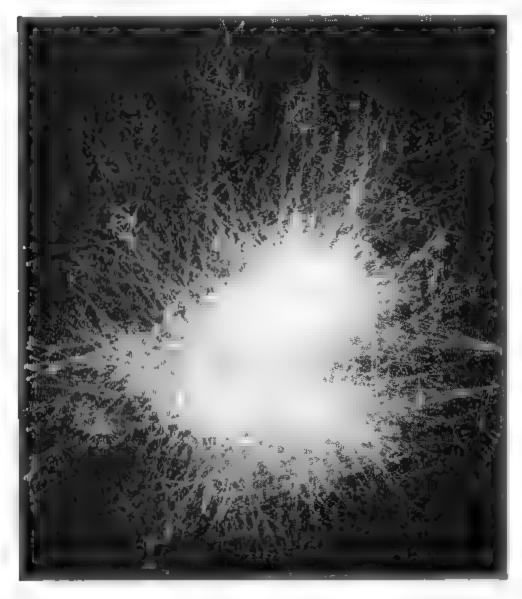
Gottfried Leibniz

Gottfried Leibniz was a German philosopher and mathematician. He was born in Leipzig, and after university he took public service with the Elector of Meinz for five years, during which time he concentrated mainly on political writings. After a period spent travelling, he took up the post of librarian to the Duke of Brunswick, in Hanover, and remained there until his death. It was during this last period of his life that he did most of the work on the development of his unique philosophical system.

Leibniz is famous in mathematics for his invention of the so-called "infinitesimal calculus" and the argument that followed this, as both Leibniz and Newton claimed the discovery as their own. It seems clear that they had in fact reached it independently, but Leibniz developed a much more usable notation which is still used today.

Key works

1673 A Philosopher's Creed 1685 Discourse on Metaphysics 1695 The New System 1710 Theodicy 1714 Monadology



A map of the internet shows the innumerable connections between internet users. Leibniz's theory of monads suggests that all our minds are similarly connected

for example, I will eventually be able to determine the temperature on the surface of the actual star Betelgeuse. However, in practice, the analysis that is required for me reach this information is impossibly complex— Leibniz calls it "infinite" -and because I cannot complete it, the only way that I can discover the temperature of Betelgeuse is by measuring it empirically using astronomical equipment

Is the temperature of the surface of Betelgeuse a truth of reasoning or a

truth of fact? It may be true that I had to resort to empirical methods to discover the answer, but had my rational faculties been better I could also have discovered it through rational reflection. Whether it is a truth of reasoning or a truth of fact, therefore, seems to depend on how I arrive at the answer—but is this what Leibniz is claiming?

Necessary truths

The trouble for Leibniz is that he holds that truths of reasoning are "necessary" meaning that it is impossible to contradict them, while truths of fact are "contingent"; they can be denied without logical contradiction. A mathematical truth is a necessary truth, because denying its conclusions contradicts the meanings of its own terms. But the proposition "it is raining in Spain" is contingent, because denying it does not involve a contradiction in terms—although it may still be factually incorrect.

Leibniz's distinction between truths of reasoning and truths of fact is not simply an

from other monads and each contains a complete representation of the whole universe in its past present, and future states. This representation is synchronized between all the monads, so that each one has the same content. According to Leibniz, this is how God created things—in a state of "pre-established harmony"

Leibniz claims that every human mind is a monad and so contains a complete representation of the universe. It is therefore possible in principle for us to learn everything that there is to know about our world and beyond simply by exploring our own minds. Simply by analyzing my notion of the star Beteigeuse.



Each singular substance expresses the whole universe in its own way

Gottfried Wilhelm Leibniz 🔾 🐧 God understands
everything through eternal
truth, since he does not
need experience

Gottfried Wilhelm Leibniz

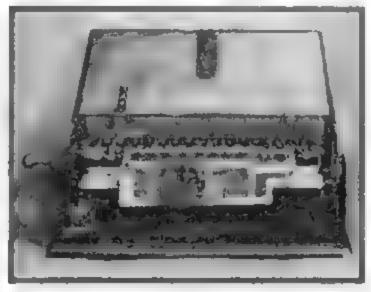
epistemological one (about the limits of knowledge), but also a metaphysical one (about the nature of the world), and it is not clear that his arguments support his metaphysical claim. Leibniz's theory of monads seems to suggest that all truths are truths of reasoning, which we would have access to if we could finish our rational analysis. But as a truth of reasoning is a necessary truth, in what way is it impossible for the temperature on Bete-geuse to be 2,401 Kelvin rather than 2,400 Kelvin? Certainly not impossible in the sense that the proposition 2 + 2 = 5 is impossible, for the latter is simply a logical contradiction.

Likewise, if we follow Leibniz and separate neccesary and contingent truths, we end up with the following problem. I can discover Pythagoras's theorem simply by reflecting on the idea of triangles so Pythagoras's theorem must be a truth of reasoning. But Betelgeuse's temperature and Pythagoras's theorem are both just as true and just as much part of the monad that is my mind—so why should one be considered contingent and the other necessary?

Moreover, Leibniz tells us that whereas no-one can reach the end of an infinite analysis, God can grasp the whole universe at once, and so for him all truths are necessary truths. The difference between a truth of reasoning and a truth of fact, therefore, does seem to be a matter of how one comes to know it—and in that case it is difficult to see why the former should always be seen to be necessarily true, while the latter may or may not be true

An uncertain future

In setting out a scheme in which an omnipotent, omniscient God creates the universe, Leibniz inevitably faces the



The mechanical calculator was one of Leibniz's many inventions. Its creation is a testament to his interest in mathematics and logic—fields in which he was a great innovator.

problem of accounting for the notion of freedom of will How can I choose to act in a certain way if God already knows how I am going to act? But the problem runs deeper-there seems to be no room for genuine contingency at all. Leibniz's theory only allows for a distinction between truths whose necessity we can discover, and truths whose necessity only God can see We know (if we accept Leibniz's theory) that the future of the world is set by an omniscient and benevolent god, who therefore has created the best of all possible worlds But we call the future contingent, or undetermined, because as limited human beings we cannot see its content

Leibniz's legacy

In spite of the difficulties inherent in Leibniz's theory, his ideas went on to shape the work of numerous philosophers, including David Hume and Immanuel Kant Kant refined Leibniz's truths of reasoning and truths of fact into the distinction between "analytic" and "synthetic" statements—a division that has remained central to European philosophy ever since

Liebniz's theory of monads fared less well, and was criticized for its metaphysical extravagance. In the 20th century however the idea was rediscovered by scientists who were intrigued by Leibniz's description of space and time as a system of relationships, rather than the absolutes of traditional Newtonian physics



TO BE IS TO BE PERCEIVED

GEORGE BERKELEY (1685-1753)

IN CONTEXT

BRANCH Metaphysics

APPROACH Idealism

BEFORE

c.380 scr in The Republic, Plato presents his theory of Forms, which states that the world of our experience is an imperfect shadow of reality.

AFTER

1781 Immanuel Kant develops
Berkeley's theory into "transcendental idealism", according to which the world that we expenence is only appearance.

1807 Georg Hegel replaces Kant's idealism with "absolute idealism"—the theory that absolute reality is Spirit.

1982 In his book *The Case for Idealism* the British philosopher John Foster argues for a version of Berkeley's idealism.

There is no such thing as what philosophers call material substance

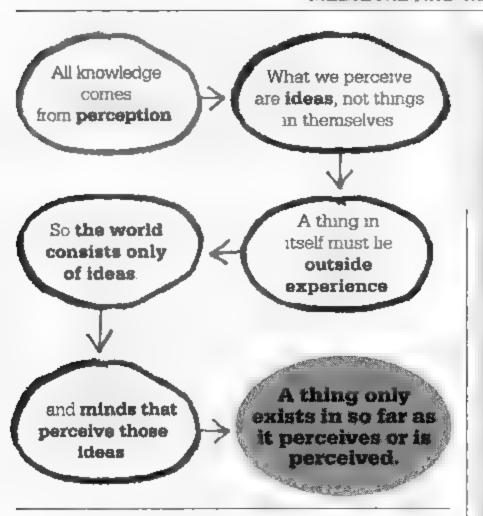
George Berkeley



ike John Locke before him. George Berkeley was an empiricist, meaning that he saw experience as the primary source of knowledge This view, which can be traced back to Aristotle stands in contrast to the rationalist view that, in principle, all knowledge can be gained through rational reflection alone. Berkeley shared the same assumptions as Locke, but reached very different conclusions. According to Berkeley. Locke's empiricism was moderate, it still allowed for the existence of a world independent of the senses, and followed René Descartes in seeing humans as being made up of two distinct substances, namely mind and body

Berkeley's empiricism, on the other hand, was far more extreme, and led him to a position known as "immaterialist idealism." This means that he was a monist, believing that there is only one kind of substance in the universe, and an idealist, believing that this single substance is mind or thought, rather than matter

Berkeley's position is often summarized by the Latin phrase esse est percipi ("to be is to be perceived"), but it is perhaps better represented by esse est aut perciperi aut percipi ("to be is to perceive or to be perceived"). For according to Berkeley, the world consists only of perceiving minds and their ideas. This is not to say that he denies the existence of the external world, or claims that it is in any way different from what we perceive. His claim is rather that all knowledge must come



from experience, and that all we ever have access to are our perceptions. And since these perceptions are simply "ideas" (or mental representations), we have no grounds for believing that anything exists other than ideas and the perceivers of ideas.

Causation and volition

Berkeley's target was Descartes' view of the world as elaborated by Locke and the scientist Robert Boyle. In this view, the physical world is made up of a vast number of physical particles, or "corpuscles", whose nature and interactions give rise to the world as we understand it. More controversially, for Berkeley, this view also maintains that the world causes the perceptual ideas we have of it by the way it interacts with our senses.

Berkeley has two main objections to this view
First, he argues that our understanding of causality
(the fact that certain events cause other events) is
based entirely on our experience of our own volitions
(the way we cause events to happen through the
action of our wills). His point is not simply that it is
wrong for us to project our own experience of
volitional action onto the world—which we do when
we say that the world causes us to have ideas about
the world. His point is that there is in fact no such
thing as a "physical cause", because there is no such
thing as a physical world beyond the world of ideas
that could possibly be the cause of our ideas. The
only type of cause that there is in the world, »



George Berkeley

George Berkeley was born and brought up at Dysart Castle, near the town of Kilkenny, Ireland. He was educated first at Kilkenny College, then at Trinity College, Dubin. In 1707 he was elected a Fellow of Trinity, and was ordained an Anglican priest. In 1714, having written all his major philosophical works, he left Ireland to travel around Europe, spending most of his time in London

When he returned to Ireland he became Dean of Derry. His main concern, however, had become a project to found a seminary college in Bermuda. In 1728 he sailed to Newport, Rhode Island, with his wife, Anne Foster, and spent three years trying to raise money for the seminary. In 1731, when it became clear that funds were not forthcoming, he returned to London Three years later he became Bishop of Cloyne, Dublin, where he lived for the rest of his life.

Key works

1710 Treatise Concerning the Principles of Human Knowledge 1713 Three Dialogues Between Hylas and Philonous If there were external bodies, it is impossible we should ever come to know it.

George Berkeley



according to Berkeley, is precisely the volitional kind of cause that is the exercise of the will

Berkeley's second objection is that because ideas are mental entities, they cannot resemble physical entities, because the two types of thing have completely different properties. A painting or a photograph can resemble a physical object because it is itself a physical thing, but to think of an idea as resembling a physical object is to mistake it for a physical thing itself. Ideas, then, can only resemble other ideas. And as our only experience of the world comes through our ideas, any claim that we can even understand the notion of "physical things" is mistaken. What we are really understanding are mental things The world is constructed purely of thought, and whatever is not itself perceiving, exists only as one of our perceptions.

The cause of perception

If things that are not perceivers only exist in so far as they are perceived, however, this seems to mean that when I leave the room, my desk computer books and so on all cease to exist, for they are no longer being perceived. Berkeley s response to this is that nothing is ever unperceived for when I am not in my room, it is still perceived by God. His theory, therefore, not only depends on the existence of God,



An idea can be like nothing but an idea, a color or figure can be like nothing but another color or figure

George Berkeley



but of a particular type of God—one who is constantly involved in the world

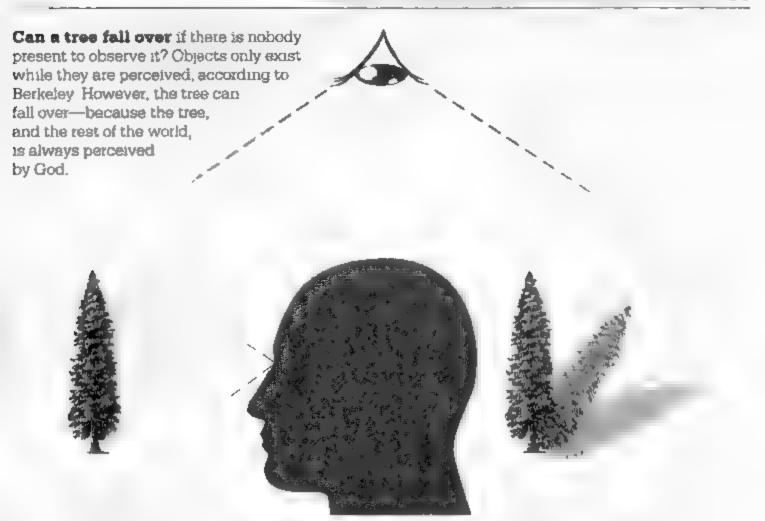
For Berkeley, God's involvement in the world runs deeper than this. As we have seen, he claims that there are no physical causes, but only "volitions", or acts of will, and it follows that only an act of will can produce the ideas that we have about the world However I am not in control of my experience of the world, and cannot choose what I experience—the world simply presents itself to me the way it does, whether I like it or not. Therefore the volitions that cause my ideas about the world are not mine, they are God's. So for Berkeley, God not only creates us as perceivers, he is the cause and constant generator of all our perceptions. This raises a number of questions, the most urgent being, how is it that we sometimes perceive things incorrectly? Why would God want to deceive us?

Berkeley tries to answer this question by claiming that our perceptions are never, in fact, in error, and that where we go wrong is in the judgements we make about what we perceive For example, if an oar half-submerged in water looks bent to me, then it really is bent—where I go wrong is thinking that it only appears to be bent.

However, what happens if I reach into the water and feel the oar? It certainly feels



Optical illusions are impossible, for Berkeley, since an object is always as it appears to be A straw submerged in water, for example, really is bent, and a magnified object really is larger



straight. And since the oar cannot be both straight and bent at the same time, there must in fact be two oars—one that I see and one that I feel. Even more problematic for Berkeley, however, is the fact that two different people seeing the same oar must in fact be seeing two different oars, for there is no single, "real" oar "out there" that their perceptions converge on

The problem of solipsism

An inescapable fact of Berkeley's system therefore seems to be that we never perceive the same things. Each of us is locked in his own world, cut off from the worlds of other people. The fact that God has an idea of an oar cannot help us here,

All the choir of heaven and furniture of earth—in a word, all those bodies which compose the frame of the world—have not any subsistence without a mind.

George Berkeley



for that is a third idea, and therefore a third oar. God caused my idea and your idea, but unless we share a single mind with each other and with God, there are still three different ideas, so there are three different oars. This leads us to the problem of solipsism—the possibility that the only thing I can be certain of existing—or that may in fact exist—is myself.

One possible solution to solipsism runs as follows, since I can cause changes in the world such as raising my own hand, and since I notice similar changes in the bodies of other people. I can infer that those bodies are also changed by a "consciousness" inside them. The problem for Berkeley, though, is that there is no "real" hand being lifted—the most a person can do is be the cause of the idea of his own hand rising-and only their idea, not another person's I, in other words, must still rely on God to supply me with my idea of another person's hand rising. Far from supplying us with empirical certainty, therefore, Berkeley leaves us depending for our knowledge of the world, and of the existence of other minds, upon our faith in a God that would never deceive us .

THE AGE OF REVOLU 1750-1900

had evolved into a collection of separate nation states, having previously been a continent unified under the control of the Church. As power devolved to separate countries, distinctive national cultures formed, which were most obvious in arts and literature, but could also be seen in the philosophical styles that emerged during the 17th century

During the Age of Reason there was a very clear difference between the rationalism of continental Europe and the empiricism of British philosophers, and in the 18th century philosophy continued to center on France and Britain, as the Enlightenment period unfolded. Old values and feudal systems crumbled as the new nations founded on trade gave use to a growing urban middle-class with unprecedented prosperity. The richest nations, such as Britain, France, Spain, Portugal, and the Netherlands, established colonies and empires around the world.

France and Britain

Philosophy increasingly focused on social and political issues, also along national lines. In Britain, where a revolution had

already come and gone, empiricism reached a peak in the works of David Hume, while the new utilitarianism dominated political philosophy This evolved alongside the Industrial Revolution that had started in the 1730s, as thinkers such as John Stuart Mill refined the utilitarianism of Jeremy Bentham and helped to establish both a liberal democracy and a framework for modern civil rights. The situation in France. however, was less stable. The rationalism of René Descartes gave way to a generation of philosophes, radical political philosophers who were to popularize the new scientific way of thinking. They included the literary satirist Voltaire and the encyclopedist Denis Diderot, but the most revolutionary was Jean-Jacques Rousseau His vision of a society governed on the principles of liberté, egalité, and fraternité (liberty, equality, and fraternity) provided the battle cry of the French Revolution in 1789, and has inspired radical thinkers ever since Rousseau believed that civilization was a corrupting influence on people, who are instinctively good, and it was this part of his thinking set the tone for Romanticism. the movement that followed



In the Romantic period European literature, painting, and music became preoccupied with an idealized view of nature, in marked contrast to the sophisticated urban elegance of the Enlightenment. Perhaps the key difference was the way in which the Romantics valued feeling and intuition above reason. The movement took hold throughout Europe, continuing until the end of the 19th century.

German Idealism

German philosophy came to dominate the 19th century, largely due to the work of Immanuel Kant His idealist philosophy. which claimed that we can never know anything about things that exist beyond our selves, radically altered the course of philosophical thought. Although only a few years younger than Hume and Rousseau, Kant belonged to the next generation; his major philosophical works were written after their deaths, and his new explanation of the universe and our knowledge of it managed to integrate the approaches of rationalism and empiricism in a way more suited both to Romanticism and to Germanic culture

Kant's followers included Fichte, Schelling, and Hegel who together became known as the German Idealists, but also Schopenhauer whose idiosynciatic interpretation of Kant's philosophy incorporated ideas from Eastern philosophy

Among the followers of Hegel's rigid Idealism was Karl Marx, who brilliantly brought together German philosophical methods, French revolutionary political philosophy, and British economic theory After writing the Communist Manifesto with Friedrich Engels, he wrote Das Kapital, arguably one of the most influential philosophical works of all time. Within decades of his death, countries across the world had set up revolutionary states on the principles that he had proposed.

Meanwhile in the US which had overthrown British rule and established a republic based on Enlightenment values, an American culture independent of its European roots began to develop. At first Romantic, by the end of the 19th century it had produced a homegrown strand of philosophy, pragmatism, which examines the nature of truth. This was in keeping with the country's democratic roots and well-suited to the culture of the new century.



DOUBT IS NOT A PLEASANT CONDITION, BUT CERTAINTY IS ABSURD

VOLTAIRE (1694-1778)

INCONTEXT

BRANCH

Epistemology

APPROACH

Scepticism

BEFORE

350 BCE Aristotle makes

the first reference to a child's mind as a "blank slate", which later became known as a tabula rasa

1690s John Locke argues that sense experience allows both children and adulta to acquire reliable knowledge about the external world.

AFTER .

1859 John Stuart Mill argues against assuming our own infambility in On Liberty.

1900s Hans Georg Gadamer and the postmodernists apply sceptical reasoning to all forms of knowledge, even that gained through empirical (sense-based) information.

oltaire was a French intellectual who lived in the Age of Enlightenment. This period was characterized by an intense questioning of the world and how people live in it. European philosophers and writers turned their attention to the acknowledged authorities—such as the Church and

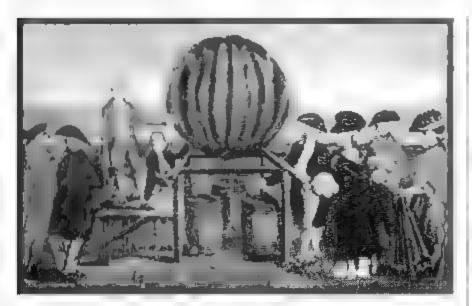
Every fact and theory in history has been revised at some point.

We are not born with ideas and concepts already in our heads

Every idea and theory can be **challenged**

Doubt is not a pleasant condition, but certainty is absurd.

state—to question their validity and their ideas while also searching for new perspectives. Until the 17th century Europeans had largely accepted the Church's explanations of what, why, and how things existed, but both scientists and philosophers had begun to demonstrate different approaches to establishing the truth. In 1690 the philosopher John Locke had argued that no ideas were innate (known at birth), and that all ideas arise from experience alone. His argument was given further weight by scientist Isaac. Newton whose experiments provided new ways of discovering truths about the world.



Scientific experiments during the Age of Enlightenment seemed to Voltaire to lead the way toward a better world, based on empirical evidence and unabashed curiosity

It was against this background of rebellion against the accepted traditions that Voltaire pronounced that certainty is absurd

Voltaire refutes the idea of certainty in two ways First, he points out that apart from a few necessary truths of mathematics and logic nearly every fact and theory in history has been revised at some point in time. So what appears to be "fact" is actually little more than a working hypothesis. Second, he agrees with Locke that there is no such thing as an innate idea, and points out that ideas we seem to know as true from birth may be only cultural, as these change from country to country.

Revolutionary doubt

Voltaire does not assert that there are no absolute truths, but he sees no means of reaching them. For this reason he thinks doubt is the only logical standpoint. Given that endless disagreement is therefore inevitable, Voltaire says that it is important to develop a system, such as science, to establish agreement.

In claiming that certainty is more pleasant than doubt, Voltaire hints at how much easier it is simply to accept authoritative statements—such as those issued by the monarchy or Church—than it is to challenge them and think for yourself But Voltaire believes it is vitally important to doubt every "fact" and to challenge all authority. He holds that government should be limited but speech uncensored, and that science and education lead to material and moral progress. These were fundamental ideals of both the Enlightenment and the French Revolution, which took place 11 years after Voltaire's death.



Voltaire

Voltaire was the pseudonym of the French writer and thinker. Francois Marie Arouet. He was born into a middle-class family in Paris. and was the youngest of three children. He studied law at university, but always preferred writing, and by 1715 was famous as a great literary wit. His satirical writing often landed him in trouble: he was imprisoned several times for insulting nobility, and was once extled from France. This led to a stay in England, where he fell under the influence of English philosophy and science. After returning to France he became wealthy through speculation, and was thereafter able to devote himself to writing. He had several long and scandalous affairs, and travelled widely throughout Europe. In later life Voltaire campaigned vigorously for legal reform and against religious intolerance, in France and further afield.

Key works

1733 Philosophical Letters 1734 Treatise on Metaphysics 1759 Candide 1764 Philosophical Dictionary



CUSTOM IS THE GREAT GUIDE OF HUMAN LIFE

DAVID HUME (1711-1776)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Empiricism

BEFORE

1637 René Descartes espouses rationalism in his Discourse on the Method.

1690 John Locke sets out the case for empineusm in An Essay Concerning Human Understanding

AFTER

1781 Immanuel Kant is inspired by Hume to write his Critique of Pure Reason

1844 Arthur Schopenhauer acknowledges his debt to Hume in The World as Will and Representation

1934 Karl Popper proposes falsification as the basis for the scientific method; as opposed to observation and induction.

avid Hume was born at a time dominated by a debate about the nature of knowledge. René Descartes had in effect set the stage for modern philosophy in his Discourse on the Method, instigating a movement of rationalism in Europe, which claimed that knowledge can be arrived at



Mothematics
and logic yield
what Hume calls
"demonstrative"
truths, which
cannot be denied
without
contradiction
These are the only
certainties in
Hume's philosophy

by rational reflection alone. In Britain,
John Locke had countered this with his
empiricist argument that knowledge can
only be derived from experience. George
Berkeley had followed, formulating his own
version of empiricism, according to which
the world only exists in so far as it is
perceived. But it was Hume, the third of
the major British empiricists, who dealt the
biggest blow to rationalism in an argument
presented in his Treatise of Human Nature

Huma's fork

With a remarkable clarity of language. Hume turns a sceptical eye to the problem of knowledge, and argues forcibly against the notion that we are born with "innate ideas" (a central tenet of rationalism). He does so by first dividing the contents of our minds into two kinds of phenomena, and then asking how these relate to each other. The two phenomena are "impressions"—or direct perceptions, which Hume calls the "sensations, passions, and emotions"—and "ideas", which are faint copies of our impressions, such as thoughts, reflections and imaginings. And it is while analyzing

this distinction that Hume draws an unsettling conclusion—one that calls into question our most cherished beliefs, not only about logic and science, but about the nature of the world around us

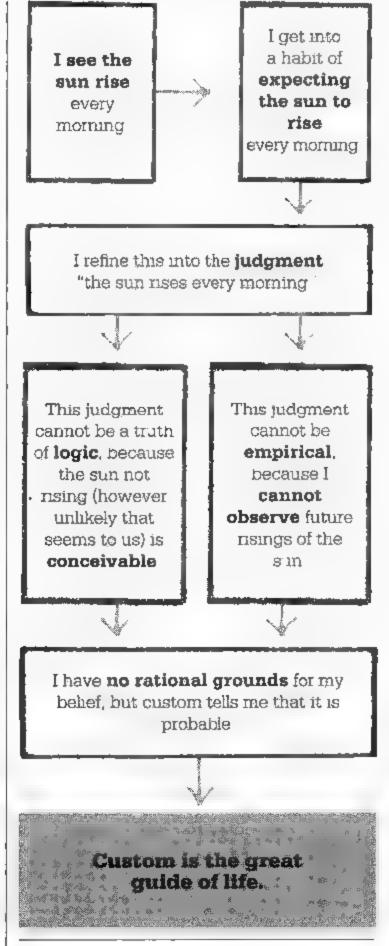
The problem, for Hume is that very often we have ideas that cannot be supported by our impressions, and Hume concerns himself with finding the extent to which this is the case. To understand what he means, we need to note that for Hume there are only two kinds of statement namely demonstrative" and "probable statements—and he claims that in everyday experience we somehow confuse the two types of knowledge that these express

A demonstrative statement is one whose truth or falsity is self evident Take, for example, the statement 2 + 2 = 4Denying this statement involves a logical contradiction—in other words to claim that 2 + 2 does not equal 4 is to fail to grasp the meanings of the terms "2" or "4" (or "+" or "=") Demonstrative statements in logic, mathematics, and deductive reasoning are known to be true or false a priori, meaning "prior to experience" The truth of a probable statement however is not self evident, for it is concerned with matters of empirica, fact. For example, any statement about the world such as "Jim is upstairs", is a probable statement because it requires empirical evidence for it to be known to be true or false. In other words, its truth or falsity can only be known through some kind of experiment—such as by going upstairs to see if Jim is there

In light of this, we can ask of any statement whether it is probable or demonstrative. If it is neither of these, then we cannot know it to be true or false, and so, for Hume, it is a meaningless statement. This division of all statements into two possible kinds, as if forming the horns of a dilemma, is often referred to as Hume's fork."

Inductive reasoning

There are no surprises in Hume's reasoning so far, but things take a strange turn when he applies this line of argument to inductive inference—our ability to infer things from past evidence. We observe an unchanging

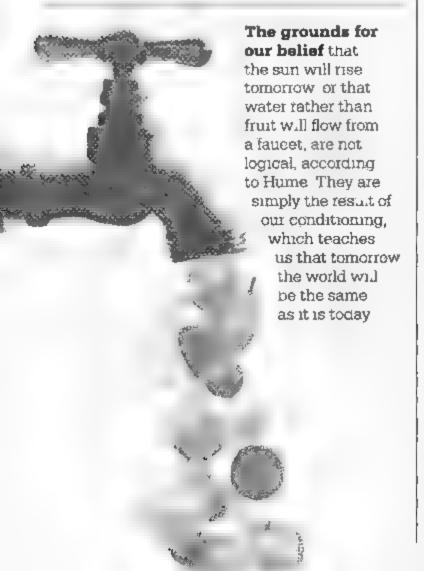


pattern, and infer that it will continue in the future, tacitly assuming that nature will continue to behave in a uniform way For example, we see the sun rise every morning, and infer that it will rise again tomorrow. But is our claim that nature follows this uniform pattern really justifiable? Claiming that the sun will rise tomorrow is not a demonstrative.

statement as claiming the opposite involves no logical contradiction. Nor is it a probable statement, as we cannot experience the sun's future risings

The same problem occurs if we apply Hume's fork to the evidence for causality The statement "event A causes event B" seems on the face of it to be one that we can verify, but again, this does not stand up to scrutiny There is no logical contradiction involved in denying that A causes B (as there would be in denving that 2 + 2 = 4), so it cannot be a demonstrative statement. Nor can it be proved empirically, since we cannot observe every event A to see if it is followed by B, so it is not a probable statement either. The fact that, in our imited experience B invariably follows A is no rational ground for believing that A will always be followed by B, or that A causes B

If there is never any rational basis for inferring cause and effect then what justification do we have for making that connection? Hume explains this simply as "human nature"—a mental habit that reads





Nature, by an absolute and uncontrollable necessity. has determined us to judge as well as to breathe and feel

David Hume



uniformity into regular repetition, and a causal connection into what he calls the "constant conjunction" of events Indeed, it is this kind of inductive reasoning that is the basis of science, and tempts us to interpret our inferences as "laws" of nature—but despite what we may think, this practice cannot be justified by rational argument

In saying this, Hume makes his strongest case against rationalism, for he is saying that it is belief (which he defines as "a lively idea related to or associated with a present impression"), guided by custom, that lies at the heart of our claims to knowledge rather than reason

Custom as our guide

Hume goes on to acknowledge that although inductive inferences are not provable, this does not mean that they are not useful. After all, we still have a reasonable claim to expect something to happen, judging from past observation and experience. In the absence of a rational justification for inductive inference, custom is a good guide

Hume adds, however, that this "mental habit" should be applied with caution Before inferring cause and effect between two events, we should have evidence both that this succession of events has been invariable in the past, and that there is a necessary connection between them. We can reasonably predict that when we let go of an object it will fall to the ground, because this is what has always happened in the past, and there is an obvious connection between letting go of the object and its falling. On the other hand, two clocks set a few seconds apart will chime one after another-but since



Science supplies us with ever more detailed information about the world. However, according to Hume, science deals with theories only and can never yield a "law of nature."

there is no obvious connection between them, we should not infer that one clock's chiming is the cause of the other's

Hume's treatment of the "problem of induction", as this became known both undermines the claims of rationalism and elevates the role of belief and custom in our lives. As he says, the conclusions drawn by our beliefs are "as satisfactory to the mind," as the demonstrative kind.

A revolutionary idea

The brilliantly argued and innovative ideas in the *Treatise of Human Nature* were virtually ignored when they were

In our reasonings concerning fact, there are all imaginable degrees of assurance. A wise man therefore proportions his belief to the evidence

White beloway to Car and the

David Hume 👜



published in 1739, despite being the highpoint of British empiricism. Hume was better known in his own country for being the author of a History of Great Britain than for his philosophy in Germany, however the significance of his epistemology had more impact Immanuel Kant admitted to being woken from his "dogmatic slumbers" by reading Hume who remained a significant influence on German philosophers of the 19th century and the logical positivists of the 20th century, who believed that only meaningful statements could be verifiable. Hume's account of the problem of induction remained unchallenged throughout this period and resurfaced in the work of Karl Popper, who used it to back up his claim that a theory can only be deemed scientific if it is faisifiable.

David Humo



Born in Edinburgh, Scotland, in 1711, Humewas a precocious child who entered the University of Edinburgh at the age of 12. Around

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1729 he devoted his time to finding "some medium by which truth might be established", and after working himself into a nervous breakdown he moved to La Flèche in Anjou, France. Here he wrote A Trestise of Human Nature, setting out virtually all his philosophical ideas before returning to Edinburgh.

In 1763 he was appointed to the Embassy in Paris, where he befriended the philosopher Jean-Jacques Rousseau and became more widely known as a philosopher.

The controversial Dialogues Concerning Natural Religion occupied Hume's final years and, because of what he called his "abundant caution", were only published after his death in Edinburgh in 1776.

Key works 1739 A Treatise of Human Nature 1748 An Enquiry Concerning Human

Concerning Human Understanding 1779 Dialogues Concerning Natural Religion



MAN WAS BORN FREE YET EVERYWHERE HE IS IN CHAINS

JEAN-JACQUES ROUSSEAU (1712-1778)

IN CONTEXT

BRANCH
Political philosophy

APPROACH
Social contract theory

BEFORE

1651 Thomas Hobbes puts forward the idea of a social contract in his book *Leviathan*

1689 John Locke's Two Treatises of Government asserts a human's natural right to defend "life, health, liberty, or possessions."

AFTER

1791 Thomas Paine's Rights of
Man argues that government's only
purpose is to safeguard the rights of
the individual

1848 Karl Marx and Friedrich Engels publish The Communist Manifesto.

1971 John Rawls develops the idea of "Justice as Fairness" in his book

A Theory of Justice

ousseau was very much a product of the mid- to late- 18th-century period known as the Enlightenment and an embodiment of the continental European philosophy of the time. As a young man he tried to make his name as both a musician and composer but in 1740 he met Denis Diderot and Jean d'Alembert, the Man in a "state of nature" is fundamentally good

When the idea of private property developed, society had to develop a system to protect it.

This system evolved as **laws imposed by those with property** onto
those without property

These laws bind people in unjust ways

Man is born free, yet everywhere he is in chains.

philosopher compilers of the new Encyclopedie and became interested in philosophy. The political mood in France at this time was uneasy. Enlightenment thinkers in France and England had begun to question the status quo, undermining the authority of both the Church and the aristocracy, and advocates of social reform such as Voltaire continually fell foul of the overbearing censorship of the establishment. Unsurprisingly in this context. Rousseau's main area of interest became political philosophy. His thinking was influenced not only by his French contemporaries, but also

by the work of English philosophers—and in particular the idea of a social contract as proposed by Thomas Hobbes and refined by John Locke.

Like them, Rousseau compared an idea of humanity in a hypothetical "natural state" with how people actually live in a civil society. But he took such a radically different view of this natural state and the way it is affected by society that it could be considered a form of counter Enlightenment' thinking. It held within it the seeds of the next great movement. Romanticism

Science and art corrupt

Hobbes had envisaged life in the natural state as "solitary, poor, nasty, brutish, and short." In his view humanity is instinctively self-interested and self-serving, and that civilization is necessary to place restrictions on these instincts. Rousseau, however looks more kindly on human nature, and sees civil society as a much less benevolent force.

The idea that society might be a harmful influence first occurred to Rousseau when he wrote an essay for a competition organized by the Academy of Dijon answering the question. Has the restoration of the sciences and the arts contributed to refining moral practices? The expected answer from thinkers of the time, and especially from a musician such as Rousseau was an enthusiastic affirmative but in fact Rousseau argued the opposite case. His Discourse on the Sciences and Arts, which won him first prize controversially puts forward the idea that the arts and sciences corrupt and erode morals. He argues that far from improving minds and lives, the arts and sciences decrease human virtue and happiness.



The Romantic movement in art and literature that dominated the late 18th and early 19th centuries reflected Rousseau's vision of the state of nature as one of beauty, innocence, and virtue



Jean-Jacques Rousseau

Jean-Jacques Rousseau was born to a Calvinist family in Geneva. His mother died only a few days after his birth, and his father fled home following a duel a few years later, leaving him in the care of an uncle.

Aged 16, he left for France and converted to Catholicism. While trying to make his name as a composer, he worked as a civil servant and was posted to Venice for two years, but on his return he began to write philosophy. His controversial views led to his books being banned in Switzerland and France, and warrants being issued for his arrest. He was forced to accept David Hume's invitation to live in England for a short time, but after they quarrelled he returned to France under a false name. He was later allowed to return to Paris, where he lived until his death at the age of 66.

Key works

1750 Discourse on the Sciences and Arts 1755 Discourse on the Origin and Foundations of Inequality among Men 1755 Discourse on Political Economy 1762 The Social Contract

The inequality of laws

Having broken with established thinking in his prize-winning and publicly acclaimed essay, Rousseau took the idea a stage further in a second essay the Discourse on the Origin and Foundations of Inequality among Men The subject matter chimed with the mood of the time, echoing the calls for social reform from writers such as Voltaire, but once again Rousseau contradicted conventional thinking with his analysis. The selfish, savage, and unjust state of nature depicted by Hobbes is, for Rousseau, a description not of "natural man", but of "civilized man". In fact he claims that it is civil society that induces this savage state. Humanity's natural state, he argues, is innocent happy, and independent, man is born free

Society corrupts

The state of nature that Rousseau describes is a pastoral idyll where people in their natural state are fundamentally good (The English wrongly interpreted Rousseau's idea of natural man as a "noble savage", but this was due to a mistranslation of the French sauvage, which means simply "natural", not brutish) People are endowed with innate virtue and, more importantly, the attributes of



Adam and Eve represent the kind of perfect natural" humans that Rousseau thought predated society. He said that we, like them are corrupted by knowledge, becoming ever more selfish and unhappy

compassion and empathy But once this state of innocence is disrupted, and the power of reason begins to separate humankind from the rest of nature, people become detached from their natural virtues. The imposition of civil society on the state of nature therefore entails a move away from virtue toward vice, and from idyllic happiness toward misery

Rousseau sees the fall from a state of nature and the establishment of civil society as regrettable but mevitable, because it resulted from the human capacity for reason. The process began, he thought, the first time that a man enclosed a piece of land for himself, so introducing the notion of property. As groups of people began to live side by side like this, they formed societies, which could only be maintained through a system of laws. But Rousseau claims that every society loses touch with humanity's natural virtues, including empathy, and so imposes laws that are not just, but selfish They are designed to protect property, and they are inflicted on the poor by the rich The move from a natural to a civilized state therefore brought about a move not only from virtue to vice Rousseau points out but also from innocence and freedom to injustice and enslavement. Although humanity is naturally virtuous, it is corrupted by society and although man is born free the laws imposed by society condemn him to a life "in chains"

The Social Contract

Rousseau's second Discourse ruffled even more feathers than his first, but it gained him a reputation and quite a following. His portrayal of the state of nature as desirable and not brutal formed a vital part of the emerging Romantic movement in literature Rousseau's rallying cry of "back to nature!" and his pessimistic analysis of modern society as full of inequalities and injustices sat well with the growing social unrest of the 1750s, especially in France. Not content with merely stating the problem Rousseau went on to offer a solution, in what is seen as perhaps his most influential work. The Social Contract.

Rousseau opens his book with the challenging declaration "Man is born free yet everywhere he is in chains", which was

considered such a call for radical change that it was adopted as a slogan during the French Revolution 27 years later Having issued his challenge, Rousseau then sets out his vision of an alternative civil society, run not by anstocrats, the monarchy, and the Church but by al. citizens, who participate in the business of legislation Modelled on Classical republican ideas of democracy, Rousseau imagines the citizen body operating as a unit, prescribing laws according to the volonté genérale, or general will The laws would arise from al. and apply to all—everyone would be considered equal In contrast with the social contract envisaged by Locke which was designed to protect the rights and property of individuals Rousseau advocates giving legislative power to the people as a whole, for the benefit of all, administered by the general will. He believes that the freedom to take part in the legislative process would lead to an elimination of inequality and injustice, and that it would promote a feeling of belonging to society—that it would inevitably lead to the liberté. égalité, fraternité (liberty, equality, fraternity) that became the motto of the new French Republic

The evils of education

In another book written in the same year, entitled *Emile*, or *On Education*, Rousseau expanded on his theme, explaining that education was responsible for corrupting the state of nature and perpetuating the evils of modern society. In other books and essays he concentrated on the adverse effects of both conventional religion and atheism. At the center of all his works lay the idea that reason threatens human innocence and in turn, freedom and happiness. Instead of the education of the intellect, he proposes an education of the senses, and he suggests that our religious faith should be guided by the heart, not the head

Political influence

Most of Rousseau's writings were immediately banned in France, gaining him both notoriety and a large following. By the time of his death in 1778, revolution in France and eisewhere was imminent, and



The French Revolution, which began 11 years after Rousseau's death was inspired by his claim that it was unjust for the rich few to rule over the effectively voiceless, powerless poor

his idea of a social contract in which the general will of the citizen body controlled the legislative process offered the revolutionaries a viable alternative to the corrupt system as it stood. But his philosophy was at odds with contemporary thinking, and his insistence that a state of nature was superior to civilization led him to fall out with fellow reformers such as Voltaire and Hume Rousseau's political influence was felt most strongly during the period of revolution immediately after his death, but his influence on philosophy, and political philosophy in particular, emerged to a greater extent in the 19th century Georg Hegel integrated Rousseau's ideas of social contract into his own philosophical system. Later and more importantly, Karl Marx was particularly struck by some of Rousseau's work on inequality and injustice Unlike Robespierre, one of the leaders of the French Revolution, who had appropriated Rousseau's philosophy for his own ends during the Reign of Terror Marx fully understood and developed Rousseau's analysis of capitalist society and the revolutionary means of replacing it Marx's Communist Manifesto ends with a nod to Rousseau, encouraging the proletarians (workers) have nothing to lose but their chains".



MAN IS AN ANIMAL THAT MAKES BARGAINS

ADAM SMITH (1723-1790)

IN CONTEXT

BRANCH

Political philosophy

APPROACH

Classical economics

BEFORE

c.350 BCE Aristotle emphasizes the importance of domestic production ("economy") and explains the role of money.

Early 1700s Dutch thinker Bernard Mandeville argues that selfish actions can lead indirectly to socially desirable consequences.

AFTER

1850s British writer John Ruskin argues that Smith's views are too materialistic and therefore anti-Christian.

1940s onward Philosophers apply the idea of bargaining throughout. It the social sciences as a model for explaining human behavior.

cottish writer Adam Smith is often considered the most important economist the world has ever known. The concepts of bargaining and self-interest that he explored, and the possibility of different types of agreements and interests—such as "the common interest"—are of recurring appeal to philosophers. His writings are also

important because they give a more general and abstract form to the idea of the "commercial" society that was developed by his friend David Hume.

Like his Swiss contemporary, Jean-Jacques Rousseau. Smith assumes that the motives of human beings are partly benevolent and partly self-interested, but that self-interest is the stronger trait and so is a better guide to human behavior. He believes that this can be confirmed by social observation, and so, broadly speaking, his approach is an empirical one in one of his most famous discussions of the psychology of bargaining, he contends that the most frequent opening gambit in a bargain is for one party to urge the other-"the best way for you to get what you want is for you to give me what I want." In other words, "we address ourselves, not to [another's] humanity but to their self-love "

Smith goes on to claim that the exchange of useful objects is a distinctively human characteristic. He notes that dogs are never observed exchanging bones, and that should an animal wish to obtain something, the only way it can do so is to "gain the favor of those whose service it requires". Humans may also depend on thus sort of "fawning or servile attention", but they cannot resort to it whenever they need help, because life requires "the cooperation and assistance of great multitudes." For example, to stay comfortably at an inn for a night we require the input of many people-to cook and serve the food, to prepare the room and so on-none of whose services can be

People act out of self-interest

We often require goods and services that others provide

We must therefore
agree to exchange goods
or money between us in a way
that benefits both parties

Man is an animal that makes bargains.

depended on through good will alone. For this reason, "man is an animal that makes bargains"—and the bargain is struck by proposing a deal that appears to be in the self-interest of both parties

The division of labor

In his account of the emergence of market economies, Smith argues that our ability to make bargains put an end to the once universal requirement that every person, or at least every family, be economically self-sufficient. Thanks to bargaining, it became possible for us to concentrate on producing fewer and fewer goods, and ultimately to produce just a single good, or offer a single service, and to exchange this for everything else we required. This

process was revolutionized by the invention of money, which aboushed the need to barter. From then on, in Smith's view, only those who were unable to work had to depend on charity. Everyone else could come to the marketplace to exchange their labor—or the money they earned through labor—for the products of other people's labor.

This elimination of the need to provide everything for ourselves led to the emergence of people with particular sets of skills (such as the baker and the carpenter), and then to what Smith calls a "division of labor" among workers. This is Smith's phrase for specialization, whereby an individual not only pursues a single type of work, but performs only a single task in a »

Adam Smith



The "father of modern economics" was born in Kirkcaldy, Fife, in 1723. An academic prodigy, Smith became a professor first at Edinburgh University, then at
Glaegow University
where he became a
professor in 1750. In the
1760s, he took a lucrative
job as a personal tutor to a
young Scottish aristocrat,
Henry Scott, with whom
he visited France and
Switzerland.

Already acquainted with David Hume and other Scottish Enlightenment thinkers, he seized the chance to meet leading figures of the European Enlightenment as well. On his return to Scotland, he spent a decade writing The

Wealth of Nations, before returning to public service as Commissioner of Customs, a position that allowed him to advise the British government on various economic policies. In 1787, he rejoined Glasgow University, and spent the last three years of his life as its rector.

Key works

1759 The Theory of Moral Sentiments 1776 The Wealth of Nations 1795 Essays on Philosophical Subjects



The market is the key to establishing an equitable society in Smith's view. With the freedom provided by the buying and selling of goods, individuals can enjoy lives of "natural liberty."

job that is shared by several people Smith illustrates the importance of specialization at the beginning of his masterpiece. The Wealth of Nations, by showing how the making of a humble metal pin is radically improved by adopting the factory system. Where one man working alone would find it hard to produce 20 perfect pins in a day, a group of 10 men-charged with different tasks—from drawing out the wire, straightening it, cutting it pointing it and grinding it, to joining it to a pinhead—were able, in Smith's time, to produce over 48,000 pins a day

Smith was impressed by the great improvements in the productivity of abor that took place during the Industrial Revolution—improvements that saw workers provided with much better equipment, and often saw machines replacing workers. The jack-of-all trades could not survive in such a system, and even philosophers began to specialize in the various branches of their subject, such as logic, ethics, epistemology, and metaphysics.

The free market

Because the division of labor increases productivity and makes it possible for everyone to be eligible for some kind of work (since it frees us from training in a craft). Smith argues that it can lead to universal wealth in a well-ordered society Indeed, he says that in conditions of perfect liberty, the market can lead to a state of perfect equality—one in which everyone is free to pursue his own interests in his own way, so long as it accords with the laws of justice. And by equality Smith is not referring to equality of opportunity but to equality of condition In other words, his goal is the creation of a society not divided by competitiveness but drawn together by bargaining based on mutual self-interest

Smith's point, therefore, is not that people should have freedom just because they deserve it. His point is that society as a whole benefits from individuals pursuing their own interests. For the "invisible hand" of the market, with its laws of supply and demand, regulates the amount of goods that are available, and prices them far more efficiently than any government could. Put simply, the pursuit of self-interest, far from being incompatible with an equitable society, is, in Smith's view, the only way of guaranteeing it.

In such a society, a government can himit itself to performing just a few essential functions, such as providing defense, criminal justice, and education, and taxes and duties can be reduced accordingly. And just as bargaining can flourish within national boundaries, so it can flourish across them, leading to international trade—a phenomenon that was spreading across the world in Smith's time.

Smith recognized that there were problems with the notion of a free market in particular with the increasingly common bargain of wages for working time. He also acknowledged that while the division of labor had huge economic benefits repetitive work is not only boring for the worker, it can destroy a human beingand for this reason he proposed that governments should restrict the extent to which the production line is used Nevertheless, when The Wealth of Nations was first published, its doctrine of free and unregulated trade was seen as revolutionary, not only because of its attack on established commercial and agricultural privileges and monopolies, but also because of its argument that a nation's wealth depends not on its gold reserves, but on its labor-a view that went against all economic thinking in Europe at the time

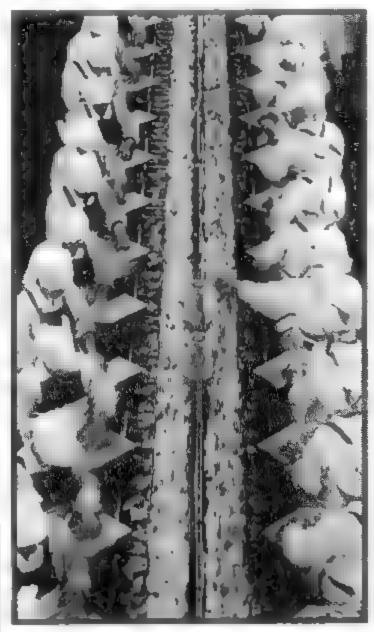
Smith's reputation for being a revolutionary was bolstered during the long debate about the nature of society that followed the French Revolution of 1789, prompting the mid-Victorian historian H T Buckle to describe The Wealth of Nations as "probably the most important book that has ever been written."

Smith's legacy

Critics have argued that Smith was wrong to assume that the "general interest" and "consumer interest" are the same, and that the free market is beneficial to all What is true is that even though Smith was sympathetic toward the victims of poverty, he never fully succeeded in balancing the interests of producers and consumers within his social model, or integrating into

it the domestic labor, performed mainly by women, that helped to keep society running efficiently

For these reasons, and with the rise of socialism in the 19th century, Smith's reputation declined, but renewed interest in free market economics in the late 20th century saw a revival of Smith's ideas Indeed, only today can we fully appreciate his most visionary claim—that a market is more than just a place. A market is a concept, and as such can exist anywherenot only in a designated place such as a town square. This foreshadows the kind of "virtual" marketplace that only became possible with the advent of telecommunications technology Today's financial markets and online trading bear witness to Smith's great vision



The production line is an incredible money-creating machine, but Smith warns against the dehumanizing effects it can have on workers if it is used without regulation.



THERE ARE TWO WORLDS: OUR BODIES AND THE EXTERNAL WORLD

IMMANUEL KANT (1724-1804)

IN CONTEXT

BRANCH Metaphysics

APPROACH

Transcendental idealism

BEFORE

1641 René Descartes publishes his Meditations, in which he doubts all knowledge apart from the knowledge of his own consciousness

* 1739 David Hume publishes his Treatise of Human Nature which suggests limitations on how the human mind perceives reality

AFTER

19th century The German . leabst movement develops in response to Kant's philosophy.

1900s Edmund Husserl develops phenomenology, the study of objects of experience, using Kant's understanding of consciousness.

"scandalous" that in more than
2 000 years of philosophical thought,
nobody had been able to produce an
argument to prove that there really is
a world out there, external to us. He
particularly had in mind the theories
of René Descartes and George Berkeley,
who both entertained doubts about the
existence of an external world

At the start of his Meditations, Descartes argued that we must doubt all knowledge except that of our own existence as thinking beings—even the knowledge that there is an external world. He then went on to counter this sceptical point of view with an argument that claims to prove the existence of God, and therefore the reality of an outside world. However many philosophers (including Kant) have not found Descartes' proof of God to be valid in its reasoning.

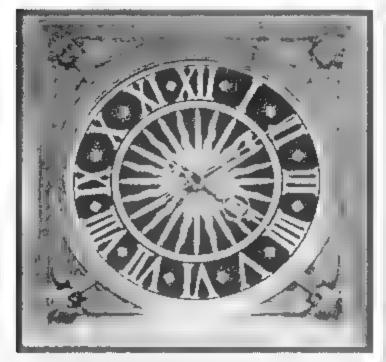
Berkeley, on the other hand, argued that knowledge is indeed possible—but that it comes from experiences our consciousness perceives. We have no justification for believing that these experiences have any external existence outside our own minds.

Time and consciousness

Kant wants to demonstrate that there is an external, material world, and that its existence cannot be doubted. His argument begins as follows: in order for something to exist, it must be determinable in time—that is, we must be able to say when it exists and for how long. But how does this work in the case of my own consciousness?

Although consciousness seems to be constantly changing with a continuous flow of sensations and thoughts, we can use the word "now" to refer to what is currently happening in our consciousness. But "now" is not a determinate time or date. Every time I say "now", consciousness is different.

Here lies the problem, what makes it possible to specify the "when" of my own existence? We cannot experience time itself.



According to Kant, we can only experience time through things in the world that move or change such as the hands of a clock. So time is only ever experienced by us indirectly

directly; rather, we experience time through things that move, change, or stay the same Consider the hands of a clock, constantly moving slowly around. The moving hands are useless for determining time on their own—they need something against which they change, such as the numbers on a clock face. Every resource I have for measuring my constantly changing "now" is found in material objects outside me in space (including my own physical body). Saying that I exist requires a determinate point in

time, and this, in turn requires an actually existing outside world in which time takes place. My level of certainty about the existence of the external world is thus precisely the same as my level of certainty about the existence of consciousness, which Descartes believed was absolutely certain

The problem of science

Kant also looked at how science understood the exterior world. He admired the awesome progress that the natural sciences had made over the previous two centuries, compared with the relative stagnation in the subject from ancient times until that point Kant, along with other philosophers wondered what was suddenly being done correctly in scientific research. The answer given by many thinkers of the period was empiricism. The empincists, such as John Locke and David Hume argued that there is no knowledge except that which comes to us through our experience of the world. They opposed the views of rationalist philosophers, such as Descartes or Gottfried Leibniz, who argued that the mind's ability to reason and deal with concepts is more important for knowledge than experience

The empiricists claimed that the recent success of science was due to scientists being much more careful in their observations of the world than they »

Our **understanding** is the ability to think about things.

Space and time

cannot be learned about through expenence; they are intuitions of the mind Our **sensibility** is the ability to sense things in the world

So a thing appears in space and time only insofar as it is sensed by our minds Concepts only apply to things

insofar as they are sensed by

A "thing-in-itself" (something considered exterior to our minds) may have nothing to do with space, time or any of our concepts

"Things-in-themselves" are unknowable.

There are two worlds: the world of experience sensed by our bodies and the world as it is in itself.

had been previously, and making fewer unjustified assumptions based on reason alone. Kant argues that although this is no doubt partly true, it could not be the whole answer, as it is simply false to say that there was no detailed and careful empirical observation in science before the 16th century.

The real issue, Kant argues, is that a new scientific method arose that made empirical observations valuable. This method involves two elements. First, it asserts that concepts such as force or movement can be perfectly described by mathematics. Second, it tests its own conceptions of the world by asking specific questions about nature and observing the answers. For example, the experimental physicist Galneo Galilei wanted to test the hypothesis that two things of different weights will nevertheless fall through the air at the same rate. He designed an experiment to test this in such a way that the only possible explanation of

Kant split knowledge into intuitions, gained from direct sensibility of the world and concepts, which come indirectly from our understanding. Some of our knowledge—both of sensibility and understanding—comes from empirical evidence, while some is known a priori

intuition of a particular book

intuition of space and time

the concept of substance

Key

Empirical knowledge

A priori knowledge

the observed result would be the truth or falsity of the hypothesis

Kant identifies the nature and importance of the scientific method. He believes that this method had put physics and other subjects on the "secure road of a science." However, his investigations do not stop there. His next question is: "Why is our experience of the world such that the scientific method works?" In other words, why is our experience of the world always mathematical in nature, and how is it always possible for human reason to put questions to nature?

Intuitions and concepts

In his most famous work, Critique of Pure Reason, Kant argues that our experience of the world involves two elements. The first is what he calls "sensibility"—our ability to be directly acquainted with particular things in space and time-such as this book you are reading now. These direct acquaintances he calls "intuitions." Second is what Kant calls the "understanding", our ability to have and use concepts. For Kant a concept is an indirect acquaintance with things as examples of a type of thing, such as the concept of "book" in general Without concepts we would not know our intuition was of a book, without intuitions we would never know that there were books at all

Each of these elements has-in turn, two sides. In sensibility, there is my intuition of a particular thing in space and time (like the book) and my intuition of space and time as such (my acquaintance with what space and time are like in general) In understanding, there is my concept of some type of thing (books) and my concept of a "thing" as such (substance) A concept such as substance defines what it means to be a thing in general rather than defining some type of thing like a book. My intuition of a book and the concept of a book are empirical, for how could I know anything about books unless I had come across them in the world? But my intuition "of space and time and the concept of substance are a priori, meaning that they "are known before or independently of any experience

A true empiricist would argue against Kant that all acquaintances come from



Our understanding that entities such as trees undergo change presupposes an a priori grasp of the concept "substance", according to Kant. Such concepts are the preconditions of our experience

experience—in other words, nothing is a priori. They might say that we learn what space is by observing things in space, and we learn what substance is from our observation that the features of things change without the underlying thing itself changing. For instance, though a tree's leaves turn from green to brown, and eventually fall from the tree, it is still the same tree.

Space and substance

Kant's arguments show that, on the contrary, space is an a priori intuition. In order to learn about things outside of me. I need to know that they are outside of me. I need to know that I could not learn about space in this way how can I locate something outside of me without already knowing what "outside of me" means? Some knowledge of space has to be assumed before I can ever study space empirically. We must be familiar with space a priori

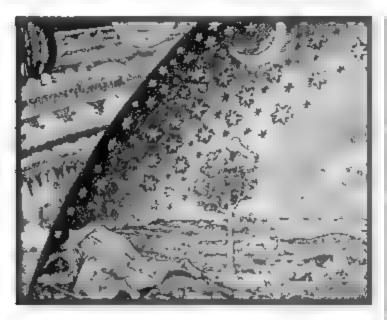
This argument has an extraordinary consequence. Because space itself is a priori, it does not belong to things in the world. But our experience of things in space is a feature of our sensibility. A thing-in-itself—Kant's term for a thing that is considered separately from sensibility, and therefore exterior to our minds—may have nothing to do with space. Kant used similar arguments to prove the same thing of time.

Kant then turns to proving the existence of a priori concepts, such as substance. He asks us first to distinguish between two types of alteration, variation and change Variation concerns the properties that things have: for instance, a tree's leaves may be green or brown Change is what the tree does: the same tree changes its leaves from green to brown. To make this distinction is already to use the notion of substance; the tree (as substance) changes, but the leaves (as the properties of substance) vary. If we do not accept this distinction, then we cannot accept the validity of the concept of substance We would be saying that any time there is alteration, something "pops" into or out of existence; the tree with green leaves is annihilated at the same time that the tree with brown leaves begins to exist from nothing

Kant needs to prove that such a view is impossible. The key to this is time determination. Time cannot be directly experienced (it is not a thing), rather, we experience time through things that alter or do not alter, as Kant has already shown. If we experienced time through the tree with green leaves and also experienced time through the tree with brown leaves without there being any connection between the two, then we would be experiencing two separate real times Since this is absurd. Kant believes he has demonstrated that the concept of substance is absolutely essential before we can gain any experience of the world. And, since it is through that experience that we learn anything empirical, the concept of substance could not be empirical, it is rather a priori

The limits of knowledge

A philosophical position that asserts that some state or activity of the mind is prior to and more fundamental than things we experience is called idealism, and Kant calls his own position "transcendental idealism." He insists that space, time, and certain concepts are features of the world we experience (what Kant called the phenomenal world) rather than features of the world itself considered »



The Flammarion woodcut depicts a man looking outside of space and time. For Kant, what is external to us is external to space and time also, and can never be known as a thing-in itself.

separately from experience (what Kant called the noumenal world)

Kant's claims about a priori knowledge have both positive and negative consequences. The positive consequence is that the a priori nature of space, time, and certain concepts is what makes our experience of the world possible and reliable. Space and time make our experience mathematical in nature, we can measure it against known values. A priori concepts such as substance make it possible to address questions about nature such as "Is that a substance?" and "What properties does it exhibit and according to what laws?" In other words, Kant's transcendental idealism is what makes it possible for our experience to be considered useful to science

On the negative side, certain types of thinking call themselves science and even resemble science, but fail utterly. This is because they apply to things-inthemselves intuitions about space and time, or concepts such as substance—which according to Kant must be valid for experience, but have no validity with respect to things-in-themselves. Because they resemble science, these types of thinking are a constant temptation to us, and are a trap that many fall into without realizing it. For example, we might wish to claim that God is the cause of the

world, but cause and effect is another of the a priori concepts, like substance, that Kant believes is entirely valid for our experienced world, but not for things inthemselves. So the existence of God (considered, as it usually is, as a being independent of the experienced world) is not something that could be known. The negative consequence of Kant's philosophy, then, is to place quite severe restrictions on the limits of knowledge.

Transcendental idealism gives us a much more radical way of understanding the distinction between ourselves and the external world. What is external to me is interpreted as not just external to me in space, but external to space itself (and to time, and to all the a priori concepts that make my experience of the world possible) And there are two worlds the "world" of experience, which includes both my thoughts and feelings and also includes experience of material things such as my body, or books; and the "world" of things-in-themselves, which is precisely not experienced and so not in any sense known, and which we must constantly strive to avoid fooling ourselves about

Our bodies have a curious role to play in all this. On the one hand, my body as a material thing is a part of the external world. On the other hand, the body is a part of us, and indeed is the medium through which we encounter other things (using our skin, nerves, eyes, ears, and so on). This provides us with one way of understanding the distinction between bodies and the external world, the body as the medium of my sensations is different from other external and material things.

Lasting influence

Kant's book Critique of Pure Reason
is arguably the most significant single
work in the history of modern philosophy
Indeed, the whole subject of philosophy
is often divided by many modern thinkers
into everything that happened before
Kant, and everything that has happened
since Before Kant, empiricists such as
John Locke emphasized what Kant
termed sensibility, but rationalists

such as Descartes tended to emphasize understanding. Kant argues that our experience of the world always involves both, so it is frequently said that Kant combined rationalism and empiricism

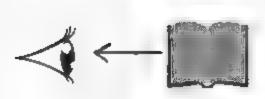
After Kant, German philosophy in particular progressed rapidly. The idealists Johann Fichte. Friedrich Schelling, and Georg Hegel all took Kant's thought in new directions and, in their turn influenced the whole of 19th-century thought. from romanticism to Marxism Kant's sophisticated critique of metaphysical thought was also important in positivism, which held that every justifiable assertion is capable of being scientifically or logically verified

The fact that Kant locates the a priori even within our intuitions of the world was important for 20th-century phenomenologists such as Edmund Husserl and Martin Heidegger, who sought to examine objects of experience independently of any assumptions we may have about them. Kant's work also remains an important reference point for contemporary philosophers today, especially in the branches of metaphysics and epistemology



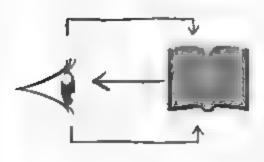
Rationalism

The rationalists believed that the use of reason, rather than experience, leads to knowledge of objects in the world



Empiricism

The empiricists believed that knowledge comes from our experience of objects in the world, rather than our reason



Transcendental Idealism

Kant's theory of transcendental idealism stated that both reason and expenence were necessary to understand the world



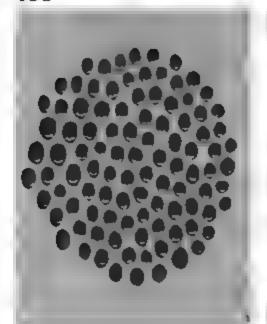
Immanuel Kant

Immanuel Kant was born into a family of financially struggling artisans in 1724. and he lived and worked his whole life in the cosmopolitan Baltic port city of Konigsberg, then part of Prussia. Though he never left his native province, he became an internationally famous philosopher within his own lifetime.

Kant studied philosophy, physics, and mathematics at the University of Konigsberg, and taught at the same institution for the next 27 years. In 1792 his unorthodox views led King Friedrich Wilhelm II to ban him from teaching. to which he returned after the king's death five years later. Kant published throughout his career. but is best known for the series of ground-breaking works he produced in his 50s and 60s. Though a bright and sociable man, he never married, and died at the age of 80.

Key works

1781 Critique of Pure Reason 1785 Foundations of the Metaphysics of Morals 1788 Critique of Practical Reason 1790 Critique of Judgement



THE GREATEST HAPPINESS FOR THE GREATEST NUMBER

JEREMY BENTHAM (1748-1832)

INCOMPEXT

BRANCH Ethics

APPROACH Utilitarianism

BEFORE

Late 4th century act Epicurus states that the main goal of life should be the pursuit of happiness.

Early 17th century Thomas Hobbes argues that a strong legal-system, with severe penalties for criminals, leads to a stable and happier society

Mid-18th century David Hume claims that emotion governs our moral judgement.

AFTER

Mid-19th century late Stant Maladvocates aducation for all arguing that it would improve general happiness:

Late 19th century Henry Sidgwick says that how moral an action is a equates divertily to the despres of pleasure it brings.

pt...creepter Aar of a least that it. human activity was driven by only two motivating forces—the avoidance of pain and the pursuit of pleasure. In The Principles of Morals and Legislation (1789), he argues that all social and postical decisions should be made with the aim of achieving the greatest happiness for the greatest number of people. Bentham believes that the moral worth of such decisions relates directly to their utility.

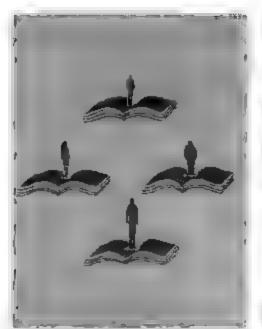
or efficiency, in generating happiness or pleasure. In a society driven by this "utilitarian" approach, he claims that conflicts of interest between individuals can be settled by legislators, guided solely by the principle of creating the broadest possible spread of contentment. If everyone can be made happy, so much the better, but if a choice is necessary it is always preferable to favor the many over the few.

One of the main benefits of his proposed system, Bentham states, is its simplicity. By adopting his ideas, you avoid the confusions and misinterpretations of more complex postical systems that can often lead to injustices and grievances

Calculating pleasure

More controversially, Bentham proposes a "felicific calculus" that can express mathematically the degree of happiness experienced by each individual. Using this precise method, he states, provides an objective platform for resolving ethical disputes, with decisions being made in favor of the view that is calculated to produce the highest measure of pleasure

Bentham also insists that all sources of pleasure are of equal value, so that the happiness derived from a good meal or close friendship is equal to that derived from an activity that may require effort or education, such as engaging in philosophical debate or reading poetry. This means that Bentham assumes a fundamental human equality with complete happiness being accessible to all regardless of social class or ability.



WHAT SORT OF PHILOSOPHY ONE CHOOSES DEPENDS ON WHAT SORT OF PERSON ONE IS

JOHANN GOTTLIEB FICHTE (1762–1814)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Idealism

BEFORE

1641 René Descartes discovers that it is impossible to doubt that "I exist."

The self is therefore the one and only thing of which we can be sure

18th century Immanuel Kant develops a philosophy of idealism and the transcendental ego, the "I" that synthesizes information. This forms the basis of Fichte's idealism and notion of the self

AFTER

20th century Fighte's nationalist ideas become associated with Martin Heidegger and the Nazi regime in Germany.

1950s Isaiah Berlin holds Fighte's idea of true freedom of the self as responsible for modern authoritarianism

ohann Gottlieb Fichte was an 18th-century German philosopher and student of Immanuel Kant. He examined how it is possible for us to exist as ethical beings with free will, while living in a world that appears to be causally determined; that is to say, in a world where

every event follows on necessarily from previous events and conditions, according to unvarying laws of nature

The idea that there is a world like this "out there", beyond our selves and independent of us, is known as dogmatism. This is an idea that gained ground in the Enlightenment period, but Fichte thinks that it leaves no room for moral values or choice. How can people be considered to have free will, he asks, if everything is determined by something elsethat exists outside of ourselves?

Fighte argues instead for a version of idealism similar to Kant's, in which our own minds create all that we think of as reality. In this idealist world, the self is an active entity or essence that exists outside of causal influences, and is able to think and choose freely, independently, and spontaneously

Fighte understands idealism and dogmatism to be entirely different starting points. They can never be "mixed" into one philosophical system, he says; there is no way of proving philosophically which is correct, and neither can be used to refute the other. For this reason one can only "choose" which philosophy one believes in, not for objective, rational reasons, but depending upon "what sort of person one is."

66

Think the I, and observe what is involved in doing this.

Johann Gottlieb Fichte





REALITY IS A HISTORICAL PROCESS

GEORG HEGEL (1770-1831)

IN CONTEXT

BRANCH Metaphysics

APPROACH Idealism

BEFORE

6th century BCE Heraclitus claims that all things pass into their opposites, an important factor in Hegel's dialectic

1781 Immanuel Kant publishes his Critique of Pure Reason, which shows the limits of human knowledge

1790s The works of Johann Fichte and Friedrich Schelling lay the foundations for the school of German Idealism.

AFTER

1846 Karl Marx writes The German: Ideology, which uses Hegel's dialectical method

1943 Jean-Paul Sartre's existentialist work Being and Nothingness relies upon Hegel's notion of the dialectic

egel was the single most famous philosopher in Germany during the first half of the 19th century. His central idea was that all phenomena, from consciousness to political institutions, are aspects of a single Spirit (by which he means "mind" or 'idea") that over the course

of time is reintegrating these aspects into itself. This process of reintegration is what Hegel calls the "dialectic", and it is one that we (who are all aspects of Spirit) understand as "history" Hegel is therefore a monist, for he believes that all things are aspects of a single thing, and an idealist, for he believes that reality is ultimately something that is not material (in this case Spirit). Hegel's idea radically altered the philosophical landscape, and to fully grasp its implications we need to take a look at the background to his thought.

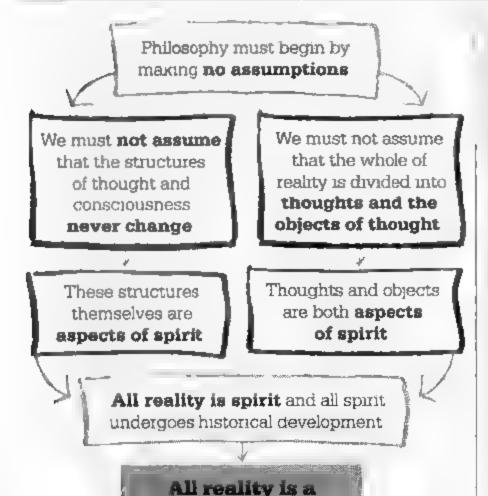
History and consciousness

Few philosophers would deny that human beings are, to a great extent, historical—that we inherit things from the past, change them, and then pass them on to future generations. Language, for example is something that we learn and change as we use it, and the same is true of science—scientists start with a body of theory, and then go on either to confirm or to disconfirm it. The same is also true of social institutions, such as the family



Certain changes.

such as those brought about by the American Revolution are explained by Hegel as the progress of Spirit from a lesser stage of its development to a higher stage



the state, banks, churches, and so on-most of which are modified forms of earlier practices or institutions. Human beings, therefore, never begin their existence from scratch, but always within some kind of context-a context that changes, sometimes radically within a single generation. Some things, however, do not immediately appear to be historical, or subject to change

historical process.

An example of such a thing is consciousness We know for certain that what we are conscious of will change, but what it means to be conscious what kind of a thing it is to be awake, to be aware, to be capable of thinking and making decisions is something that we tend to believe has always been the same for everyone. Likewise, it seems plausible to claim that the structures of thought are not historical—that the kind of activity that thinking is, and what mental faculties it relies on (memory, perception, understanding, and so on) has always been the same for everyone throughout history This was certainly what Hegel's great idealist predecessor, Immanuel Kant, believedand to understand Hegel, we need to know what he thought about Kant's work

Kant's categories

For Kant, the basic ways in which thought works, and the basic structures of consciousness, are »



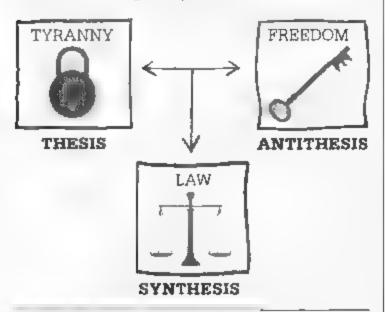
Georg Hegel

Georg Hegel was born in 1770 in Stuttgart, Germany. and studied theology at Tübingen where he met and became friends with the poet Friedrich Holderlin and the philosopher Friedrich Schelling He spent several vears working as a tutor before an inheritance allowed him to join Schelling at the University of Jena Hegel was forced to leave Jena when Napoleon's troops occupied the town, and just managed to rescue his major work, Phenomenology of Spirit, which catapulted him to a dominant position in German philosophy. In need of funds, he became a newspaper editor and then a school headmaster before being appointed to the chair of philosophy first in Heidelberg and then at the prestigious University of Berlin. At the age of 41 he married Marie von Tucher, with whom he had three children. Hegel died in 1831 during a cholera epidemic.

Key works

1807 Phenomenology of Spirit 1812-16 Science of Logic 1817 Encyclopedia of the Philosophical Sciences

Hegel's dialectic shows how opposites find resolution. A state of tyranny for example, generates a need for freedom—but once freedom has been achieved there can only be anarchy until an element of tyranny is combined with freedom, creating the synthesis "law"



a priori—that is they exist prior to (and so are not are not derived from) experience. This means that they are independent not only of what we are thinking about, or are conscious of, but are independent of any historical influence or development.

Kant calls these structures of thought "categories", and these include the concepts "cause", "substance", "existence", and "reality," For example, experience may give us knowledge about the outside world, but nothing within experience itself teaches us that the outside world actually contains, for example, causes and effects For Kant knowledge of the basic structure of the outside world is a priori knowledge It is only possible because we are all born with categories that supply us with a framework for experience -part of which s the assumption that there is an external world However, Kant continues, this a priori framework means that the world as it appears is dependent upon the nature of the human mind, and does not represent the world as it really is—in other words, the world as it is "in itself." This 'world as it is in itself" is what Kant calls the noumenal world and he claims that it is unknowable All that we can know, according to Kant, is the world as it appears to us through the framework of the categories- and this is what Kant calls the "phenomenal" world, or the world of our everyday experience

Hegel's critique of Kant

Hegel believes that Kant made great strides forward in eliminating naivety in philosophy, but that his accounts of the "world in itself" and the categories still betray uncritical assumptions, Hegel arques that Kant fails in at least two respects to be sufficiently thorough in his analysis First of all, Hegel regards Kant's notion of the "world in itself" as an empty abstraction that means nothing. For Hegel, what exists is whatever comes to be manifested in consciousness-for example, as something sensed or as something thought, Kant's second failure, Hegel argues, is that he makes too many assumptions about the nature and origin of the categories.

Hegel's task is to understand these categories without making any assumptions whatsoever, and the worst assumption that Hegel sees in Kant concerns the relationships of the categories to each other Kant assumes that the categories are original and distinct, and that they are totally separate from each other-but for Hegel they are "dialectical"—meaning that they are always subject to change, Where Kant believes in an unchanging framework of experience, Hegel believes that the framework of experience itself is subject to change—as much, indeed, as the world that we experience. Consciousness, therefore, and not merely what we are conscious of, is part of an evolving process This process is "dialectical" -a concept that has a very specific meaning in Hegel's philosophical thought

Hegel's dialectic

The notion of dialectic is central to what Hegel calls his immanent (internal) account of the development of things. He declares that his account will guarantee four things. First, that no assumptions are made. Second, that only the broadest notions possible are employed, the better to avoid asserting anything without justification. Third, that it shows how a general notion gives rise to other more specific, notions. Fourth, that this process happens entirely from "within" the notion.

itself. This fourth requirement reveals the core of Hegel's logic-namely that every notion, or "thesis", contains within itself a contradiction, or "antithesis", which is only resolved by the emergence of a newer, richer notion, called a "synthesis", from the original notion itself. One consequence of this immanent process is that when we become aware of the synthesis, we realize that what we saw as the earlier contradiction in the thesis was only an apparent contradiction, one that was caused by some limitation in our understanding of the original notion

An example of this logical progression appears at the beginning of Hegel's Science of Logic, where he introduces the most general and all-inclusive notion of "pure being"—meaning anything that in any sense could be said to be. He then shows that this concept contains a contradictionnamely, that it requires the opposite concept of "nothingness" or "not being" for it to be fully understood. Hegel then shows that this contradiction is simply a conflict between two aspects of a single, higher concept in which they find resolution in the case of "being" and "not-being", the concept that resolves them is "becoming." When we say that something "becomes", we mean that it moves from a state of not being to a state of being-so it turns out

Each of the parts of philosophy is a philosophical whole, a circle rounded and complete in itself

Georg Hegel



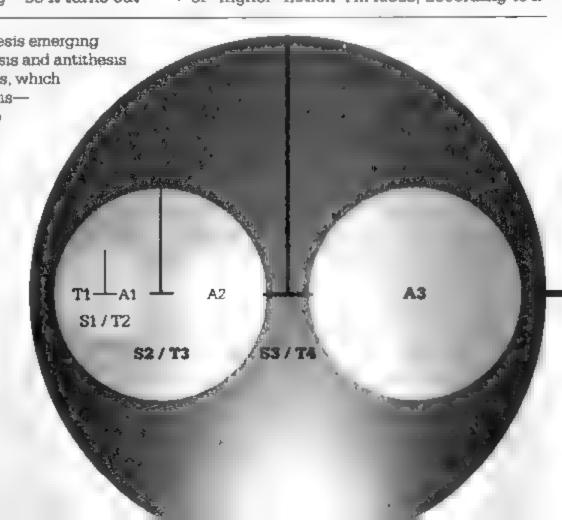
that the concept of "being" that we started off with was not really a single concept at all, but merely one aspect of the three-part notion of "becoming." The vital point here is that the concept of "becoming" is not introduced from "outside", as it were, to resolve the contradiction between "being" and "not-being" On the contrary, Hegel's analysis shows that "becoming" was always the meaning of "being" and "not being" and that all we had to do was analyze these concepts to see their underlying logic

This resolution of a thesis (being) with its antithesis (not-being) in a synthesis (becoming) is just the beginning of the dialectical process, which goes on to repeat itself at a higher level. That is, any new synthesis turns out, on further analysis, to involve its own contradiction, and this in turn is overcome by a still richer or "higher" notion. All ideas, according to »

In Hegel's view, a synthesis emerging from an antagonism of thesis and antithesis itself becomes a new thesis, which generates its own antithesis which finally gives birth to another synthesis. This dialectical process is one in which Spirit comes to ever more accurate understandings of itselfcuiminating in the philosophy of Hegel, in which it achieves complete understanding



T = THESISA = ANTITHESIS S = SYNTHESIS



Hegel are interconnected in this way, and the process of revealing those connections is what Hegel calls his "dialectical method"

In saying that the structures of thought are dialectical, therefore, Hegel means that they are not distinct and irreducible as Kant maintained, but that they emerge from the broadest, emptiest notions by means of this movement of self contradiction and resolution

Dialectic and the world

The discussion of Hegel's dialectic above uses terms such as 'emerge" "development", and "movement" On the one hand, these terms reflect something important about this method of philosophy-that it starts without assumptions and from the least controversial point, and allows ever richer and truer concepts to reveal themselves through the process of dialectical unfolding. On the other hand, however, Hegel clearly argues that these developments are not simply interesting facts of logic, but are real developments that can be seen at work in history For example a man from ancient Greece and a man living in the modern world will obviously think about different things but Hegel claims that their very ways of thinking are different, and represent different kinds of consciousness or different stages in the historical development of thought and consciousness

Hegel's first major work, Phenomenology of Spirit, gives an account of the dialectical development of these forms of consciousness. He starts with the types of consciousness that an individual human being might possess, and works up to collective forms of consciousness. He does so in such a way as to show that these types of consciousness are to be found externalized in particular historical periods or events—most famously for example, in the American and French revolutions

Indeed, Hegel even argues that at certain times in history, Spirit's next revolutionary change may manifest itself as an individua, (such as Napoleon Bonaparte) who, as an individual consciousness, is completely unaware of his or her role in the



Napoleon Bonaparte, according to Hegel perfectly embodied the *zeitgeist* (spirit of the age) and was able, through his actions, to move history into the next stage of its development

history of Spirit. And the progress
that these individuals make is always
characterized by the freeing of aspects of
Spirit (in human form) from recurring states
of oppression—of overcoming tyrannies
that may themselves be the result of the
overcoming of previous tyrannies

This extraordinary idea—that the nature of consciousness has changed through time, and changed in accordance with a pattern that is visible in history means that there is nothing about human beings that is not historical in character Moreover, this historical development of consciousness cannot simply have happened at random Since it is a dialectical process, it must in some sense contain both a particular sense of direction and an end point Hegel calls this end point "Absolute Spirit"—and by this he means a future stage of consciousness which no longer even belongs to individuals but which insteadbelongs to reality as a whole

At this point in its development, knowledge is complete—as it must be, according to Hegel, since Spirit encompasses, through dialectical synthesis, both the knower and what is known Furthermore, Spirit grasps this knowledge as nothing other than its own completed essence—the full assimilation

of all forms of "otherness" that were always parts of itself however unknowingly. In other words, Spirit does not simply come to encompass reality—it comes to be aware of itself as having always been nothing other than the movement toward this encompassing of reality. As Hegel writes in *The Phenomenology of Spirit*, "History is a conscious, self-mediating process— [it is]. Spirit emptied out into time."

Spirit and nature

But what about the world in which we live, and which seems to go its way quite separately from human history? What does it mean to say that reality itself is historical? According to Hegel, what we ordinarily call "nature" or "the world" is also Spirit. "Nature is to be regarded as a system of stages," he writes, "one arising necessarily from the other and being the proximate truth of the stage from which it results." He goes on to claim that one of the stages of nature is the progression from that which is "only Life" (nature as a living whole) to that which has "existence as Spirit" (the whole of nature now revealed as always having been, when properly understood, Spirit)

At this stage of nature, a different dialectic begins, namely that of consciousness itself—of the forms that Absolute Spirit takes in its dialectical progression toward self-realization. Hegel's account of this progression begins with consciousness first thinking of itself as an individual thing among other individuals and occupying a separate space to that of matter or the natural world. Later stages of consciousness, however, are no longer those of individuals, but are those of social or political groups—and so the dialectic continues, refining itself until it reaches the stage of Absolute Spirit.

Spirit and mind

At the time Hegel was writing, there was a dominant philosophical view that there are two kinds of entities in the world—things that exist in the physical world and thoughts about those things—these latter being something like pictures or images of the things. Hegel argues that all versions of this distinction are mistakes,

and involve committing ourselves to the ridiculous scenario in which two things are both absolutely different (things and thoughts), but also somehow similar (because the thoughts are images of things)

Hegel argues that it only seems as though the objects of thought are different from thought itself. For Hegel, the illusion of difference and separation between these two apparent "worlds" is shown as such when both thought and nature are revealed as aspects of Spirit. This illusion is overcome in Absolute. Spirit, when we see that there is only one reality—that of Spirit, which knows and reflects on itself, and is both thought and what is thought about.

The "Whole of Spirit", or "Absolute Spirit", is the end point of Hegel's dialectic However, the preceding stages are not left behind, as it were. but are revealed as insufficiently analyzed aspects of Spirit as a whole Indeed, what we think of as an individual person is not a separate constituent of reality, but is an aspect of how Spirit develops-or how it "empties itself out into time " Thus, Hegel writes, "The True is the Whole But the Whole is nothing other than the essence consummating itself through its development." Reality is Spirit both thought and what is known by thought-and undergoes a process of historical development



history had reached its end point in the Prussian state according to Hegel However, there was a strong feeling in favor of a united Germany, as personified by the figure of Germania



ABOUT NO SUBJECT IS THERE LESS PHILOSOPHIZING THAN ABOUT PHILOSOPHY

FRIEDRICH SCHLEGEL (1772-1829)

IN CONTEAT

BRANCH

Metaphilosophy

APPROACH Reflexivity

BEFORE

c.450 box Protagoras says that there are no first principles or absolute truths, "man is the measure of all things."

1641 René Descartes claims to have found a first principle on which to build beliefs about existence when he states that "I think, therefore I am."

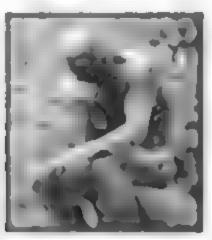
AFTER - **

1830 Georg Heger says that "the whole of philosophy resembles a circle of circles."

1920s Martin Herdegger argues
that philosophy is a matter of our
relationship with our own existence.

1967 Jacques Dernda claims that philosophical analysis can only be made at the level of language and texts

he German historian and poet credited with introducing the use of aphorisms (short, ambiguous sayings) into later modern philosophy In 1798 he observed that there was little philosophizing about philosophy (metaphilosophy), implying that we should question both how



Philosophy is the ort of thinking, and Schlegel points out that its methods affect the kind of answers it can find Western and Eastern philosophies use very different approaches

Western philosophy functions and its assumption that a linear type of argument is the best approach

Schlegel disagrees with the approaches of Aristotle and René Descartes, saying they are wrong to assume that there are solid "first principles" that can form a starting point. He also thinks that it is not possible to reach any final answers, because every conclusion of an argument can be endlessly perfected. Describing his own approach, Schlegel says philosophy must always "start in the middle... it is a whole, and the path to recognizing it is no straight line but a circle."

Schlegel's holistic view—seeing philosophy as a whole—fits within the broader context of his Romantic theories about art and life. These value individual human emotion above rational thought, in contrast to most Enlightenment thinking. While his charge against earlier philosophy was not necessarily correct his contemporary, Georg Hegel, took up the cause for reflexivity—the modern name for applying philosophical methods to the subject of philosophy itself.



EVERY MAN TAKES THE LIMITS OF HIS OWN FIELD OF VISION FOR THE LIMITS OF THE WORLD

ARTHUR SCHOPENHAUER (1788-1860)

IN CONTEXT

BRANCH Metaphysics

APPROACH Idealism

BEFORE

1690 John Locke publishes An Essay Concerning Human Understanding, explaining how all our knowledge comes from experience.

1781 Immanuel Kant's Critique of Pure Reason introduces the concept of a "thing in itself", which Schopenhauer used as a starting point for his ideas.

AFTER

Late 19th century Friedrich Nietzsche puts forward the notion of a "Will to power" to explain human motivations.

Early 20th century Austrian psychoanalyst Sigmund Freud explores what lies behind our basic human urges.

rthur Schopenhauer was not part of the mainstream of early 19th-century German philosophy He acknowledged Immanuel Kant, whom he idolized, as a major influence, but dismissed the idealists of his own generation, who held that reality ultimately consists of something nonmaterial. Most



🌢 🕭 The fundament upon which all our knowledge and learning rests is the inexplicable

Arthur Schopenhauer



of all he detested the idealist Georg Hegel for his dry writing style and optimistic philosophy

Using Kant's metaphysics as his starting point, Schopenhauer developed his own view of the world, which he expressed in clear, literary language He took Kant's view that the world is divided into what we perceive through our senses (phenomena), and "things in themselves" (noumena), but he wanted to explain the nature of the phenomenal and neumenal worlds

Interpreting Kant

According to Kant, we each construct a version of the world from our perceptions—the phenomenal world—but we can never experience the noumenal world as it is "in itself." So we each have a limited vision of the world, as our perceptions are built from information acquired through a limited set of senses Schopenhauer adds to this that "every man takes the limits of his own field of vision for the limits of the world "

The idea of knowledge being limited to our experience was not an entirely new a



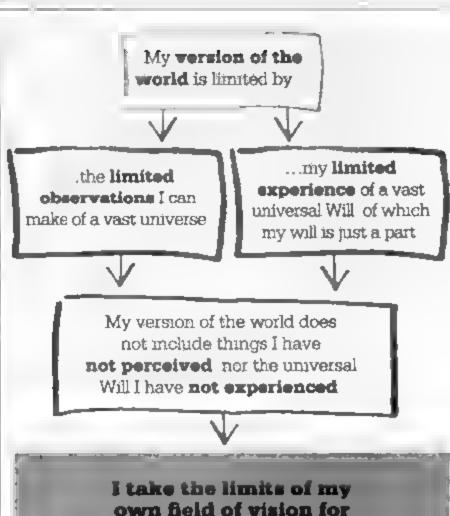
Arthur Schopenhauer

Born into a wealthy and cosmopolitan family in Danzig (now Gdansk). Schopenhauer was expected to become a merchant like his father. He travelled through France and England before his family settled in Hamburg in 1793, In 1805, after his father's deathpossibly by suicide—he felt able to stop working and go to university, where he studied philosophy and psychology. He maintained an uneasy relationship with his mother, who constantly criticized his achievements.

After completing his studies. Schopenhauer taught at Berlin University. He attained a reputation as a philanderer and misogynist; he had several affairs and avoided marriage, and was once convicted of assaulting a woman. In 1831 he moved to Frankfurt, where he lived until his death with a succession of poedles called either Atman ("soul" in Hinduism and Buddhism) or Butz (German for hobgoblin)

Key works

1818 and 1844 The World es Will and Representation ** 1851 Parerge and Paralipomena



one, the ancient philosopher Empedocles had said that "each man believes only his experience". and in the 17th century John Locke had asserted that "no man's knowledge here can go beyond his experience" But the reason Schopenhauer gives for this limitation is quite new and it comes from his interpretation of Kant's phenomenal and noumenal worlds. The important difference between Kant and Schopenhauer is that for Schopenhauer, the phenomenal and noumenal are not two different realities or worlds, but the same world, experienced differently. It is one world with two aspects Will and Representation This is most easily evidenced by our bodies, which we experience in two ways: we perceive them as objects (Representations), and experience them from within (as Will)

the limits of the world.

Schopenhauer says that an act of will, such as wishing to raise my arm, and the resulting movement, are not in two different worlds—the noumenal and phenomenal—but the same event experienced in two different ways. One is experienced from inside, the other observed from outside. When we look at things outside ourselves, although we see only their objective Representation, not their inner reality or Will, the world as a whole still has the same simultaneous outer and inner existences.

A universal Will

Schopenhauer uses the word "will" to express a pure energy that has no driving direction, and yet is responsible for everything that manifests itself in the phenomenal world. He believes, like Kant, that space and time belong in the phenomenal world-they are concepts within our minds, not things outside of them—so the Will of the world does not mark time, or follow causal or spatial laws. This means it must be timeless and indivisible, and so must our individual wills It follows, then, that the Will of the universe and individual will are one and the same thing, and the phenomenal world is controlled by this vast, timeless motiveless Will

Eastern influence

At this point in his argument,
Schopenhauer's pessimism shows
through. Where contemporaries such
as Hegel saw will as a positive force,
Schopenhauer sees humanity at the
mercy of a mindless, aimless universal
Will It lies behind our most basic urges,
he insists, and is what causes us to live
lives of constant disappointment and
frustration as we attempt to relieve our



Schopenhauer studied the Hindu Bhagavad Gita, in which Krishna the charioteer tells Arjuna that a man is a slave to his desires unless he can free himself from his cravings.

cravings. For Schopenhauer, the world is neither good nor bad, but meaningless, and humans who struggle to find happiness achieve at best gratification and at worst pain and suffering

The only escape from this miserable condition, according to Schopenhauer, is nonexistence or at least a loss of will for gratification. He proposes that relief can be found through aesthetic contemplation, especially in music, which is the one art that does not attempt to represent the phenomenal world. Schopenhauer's philosophy here echoes the Buddhist concept of nirvana (a transcendent state free from desire or suffering). He had studied Eastern thinkers and religions in great detail.

From his idea of one universal Will, Schopenhauer develops a moral philosophy that may be somewhat surprising, considering his otherwise misanthropic and pessimistic character. He realizes that if we can recognize that our separateness from the universe is essentially an illusion—because all our individual wills and the Will of the universe are one and the same thing—we can learn empathy with everyone and everything else, and moral goodness can arise from a universal compassion. Here, again, Schopenhauer's thinking reflects the ideals of Eastern philosophy

Lasting legacy

Schopenhauer was largely ignored by other German philosophers in his lifetime, and his ideas were overshadowed by those of Hegel though he did have an influence on writers and musicians. Toward the end. of the 19th century, the primacy he gave to Will became a theme in philosophy once more Friedrich Nietzsche in particular acknowledged his influence. and Henri Bergson and the American pragmatists also owe something to his analysis of the world as Will Perhaps Schopenhauer's greatest influence, however, was in the field of psychology, where his ideas about our basic urges and their frustration influenced the psychoanalytic theories of both Sigmund Freud and Carl Jung .



OVER HIS OWN BODY AND MIND, THE INDIVIDUAL IS SOVEREIGN

JOHN STUART MILL (1806-1873)

IN CONTEXT

BRANCH

Political philosophy

APPROACH

Utilitarianism

BEFORE

1651 In Leviathan, Thomas Hobbes says that people are "brutish" and must be controlled by a social contract.

1689 John Locke's book, Two Treatises of Government, looks at social contract theory in the context of empiricism

1789 Jeremy Bentham advocates the "greatest happiness principle."

AFTER

1930 Economist J M Keynes influenced by Mill, develops liberal economic theories.

1971 John Rawls publishes A Theory of Justice based on the idea that laws should be those everyone would accept

ohn Stuart Mill was born into an intellectually privileged family and he was aware from an early age of the British traditions of philosophy that had emerged during the Enlightenment of the 18th century John Locke and David Hume had established a philosophy whose new empiricism stood in stark contrast to

the rationalism of continental European philosophers. But during the late 18th century, Romantic ideas from Europe began to influence British moral and political philosophy. The most obvious product of this influence was utintarianism, which was a very British interpretation of the political philosophy that had shaped the 18th-century revolutions of both Europe and America Its originator, Jeremy Bentham, was a friend of the Mill family, and he influenced John's home education.

Victorian liberalism

As a philosopher Mill sets himself the task of synthesizing a valuable intellectual heritage with the new 19th-century. Romanticism His approach is less sceptical than that of Hume (who argued that all knowledge comes from sense experience and nothing is certain) and less dogmatic than Bentham (who insisted that everything be judged on its usefulness), but their empiricism and utilitarianism informed his thinking Mill's moral and political philosophy is less extreme than his predecessors, aiming for reform rather than revolution, and it formed the basis of British Victorian liberalism.

After completing his first philosophical work, the exhaustive six-volume System of Logic, Mill turned his attention to moral philosophy, particularly Bentham's theories of utilitarianism. He had been struck by the elegant simplicity of Bentham's principle of "the greatest happiness for the greatest number", and was a firm believer in its

usefulness. He describes his interpretation. of how utilitarianism might be applied as similar to Jesus of Nazareth's "goiden rule" do as you would be done by, and love your neighbor as yourself. This, he says, constitutes "the ideal perfection of utilitarian morality."

Legislating for liberty

Mill supports Bentham's happiness principle, but he thinks it lacks practicality Bentham had seen the idea as depending upon an abstract "felicific calculus" (an a.gorithm for calculating happiness), but Mill wants to find out how it might be implemented in the real world. He is interested in the social and politica. implications of the principle, rather than merely its use in making moral decisions How would legislation promoting the "greatest happiness of the greatest number" actually affect the individual? Might laws that sought to do this, enacting a kind of majority rule, actually prevent some people from achieving happiness?

Mill thinks that the solution is for education and public opinion to work together to establish an "indissoluble association" between an individual's happiness and the good of society. As a result, people would always be motivated to act not only for their own good or »

Decisions should be made on the principle of the **greatest good** for the greatest number.

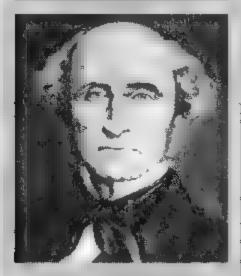
Individuals should be free to do whatever gives them pleasure even if it could harm them

but they are not entitled to do things that could harm others

Individuals can choose to do things that affect their own body but not that of someone eise

Over his own body and mind, the individual is sovereign.

John Stuart Mill



John Stuart Mill was born in London in 1806 His father was the Scottish philosopher and historian James Mill, who founded

the movement of "philosophical radicals" with Jeremy Bentham John was educated at home by his father, whose demanding program began with teaching Greek to John when he was only three years old.

After years of intense study. Mill suffered a breakdown at the age of 20. He left university to work for the East India Company, where he stayed until his retirement in 1857, as it gave him a living and time to write. During this period he met Harriet Taylor, advocate of

women's rights, whoafter a relationship of 20 years—eventually became his wife Mill served as a Member of Parliament from 1865 to 1868, putting into practice his moral and political philosophy.

Key works

1843 System of Logic 1848 Principles of Political Economy 1859 On Liberty 1861 Utiltananism 1869 The Subjection . of Women 1874 On Nature

happiness, but toward that of everyone He concludes that society should therefore allow all individuals the freedom to pursue happiness Furthermore, he says that this right should be protected by the government and that legislation should be drawn up to protect the individual's freedom to pursue personal goals. There is however, one situation in which this freedom should be curtailed, Mill says, and that is where one person's action impinges on the happiness of others. This is known as the "harm principle" He underlines this by pointing out that in these cases, a person's "own good, either physical or moral, is not a sufficient warrant."

Quantifying happiness

Mill then turns his attention to how best to measure happiness. Bentham had considered the duration and intensity of pleasures in his felicific calculus, but Mill thinks it is also important to consider the quality of pleasure. By this, he is referring to the difference between a simple satisfaction of desires and sensual pleasures, and happiness gained through intellectual and

• It is better to be Socrates dissatisfied than a fool satisfied

John Stuart Mill 🌑 🌰

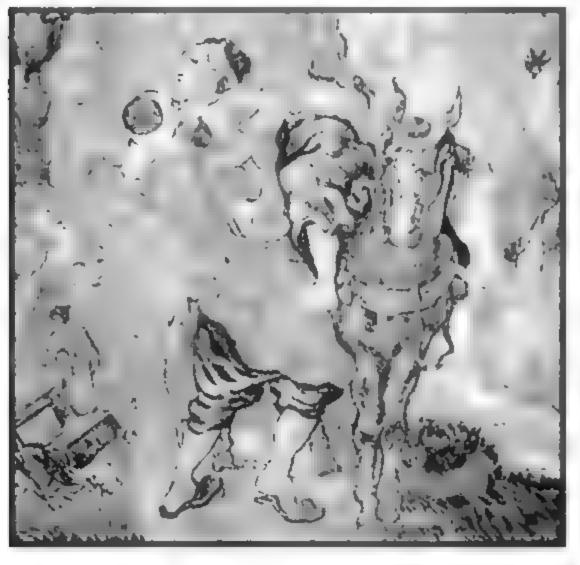


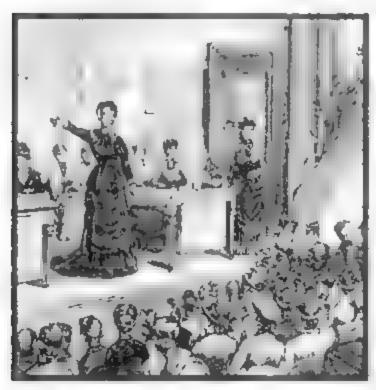
cultural pursuits. In the "happiness equation" he gives more weight to higher, intellectual pleasures than to baser, physical ones

In line with his empiricist background, Mill then tries to pin down the essence of happiness What is it, he asks, that each individual is striving to achieve? What causes happiness? He decides that "the sole evidence it is possible to produce that anything is desirable, is that people do actually desire it." This seems a rather unsatisfactory explanation, but he goes on to distinguish between two different desires, unmotivated desires (the things we want that will give us pleasure) and conscientious actions (the things we do out a sense of duty or charity, often

> against our immediate inclination, that ultimately bring us pleasure) In the first case, we desire something as a part of our happiness, but in the second we desire it as a means to our happiness, which is felt only when the act reaches its virtuous end

The good samaritan helps his enemy in a biblical parable that demonstrates Mill's golden rule, do as you would be done by He believed this would raise society's overall level of happiness





The National Society for Women's Suffrage was set up in Britain in 1868 a year after Mili tried to secure their legal right to vote by arguing for an amendment to the 1867 Reform Act

Fractical additionarium

Mill was not a purely academic philosopher, and he believed his ideas should be put into practice, so he considered what this might mean in terms of government and legislation. He saw any restriction of the individual's freedom to pursue happiness as a tyranny, whether this was the collective tyranny of the majority (through democratic election) or the singular rule of a despot. He therefore suggested practical measures to restrict the power of society over the individual, and to protect the rights of the individual to free expression

In his time as a Member of Parliament Mill proposed many reforms which were not to come about until much later, but his speeches brought the liberal applications of his utilitarian philosophy to the attention of a wide public. As a philosopher and politician, he argued strongly in defense of free speech, for the promotion of basic human rights, and against slavery-all of which were obvious practical applications of his utilitarianism. Strongly influenced by his wife Harriet Taylor-Mill, he was the first British parliamentarian to propose votes for women as part of his government reforms His liberalist philosophy also encompassed economics, and contrary to his father s

economic theories, he advocated a freemarket economy where government intervention is kept to a minimum

A softer revolution

Mill places the individual, rather than society, at the center of his utilitarian philosophy. What is important is that individuals are free to think and act as they please, without interference, even if what they do is harmful to them Every individual, says Mill in his essay On Liberty, is "sovereign over his own body and mind." His ideas came to embody Victorian liberalism, softening the radical ideas that had led to revolutions in Europe and America, and combining them with the idea of freedom from interference by authority This, for Mill, is the basis for just governance and the means to social progress, which was an important Victorian ideal. He believes that if society leaves individuals to live in a way that makes them happy it enables them to achieve their potential. This in turn benefits society as the achievements of individual talents contribute to the good of all

In his own lifetime Mill was regarded as a significant philosopher, and he is now considered by many to be the architect of Victorian liberalism. His utilitarianinspired philosophy had a direct influence on social, political, philosophical, and economic thinking well into the 20th century. Modern economics has been shaped from various interpretations of his application of utilitarianism to the free market, notably by the British economist John Maynard Keynes In the field of ethics philosophers such as Bertrand Russell, Karl Popper William James and John Rawls all took Mill as their starting point.

ा कि असाम्बर्धा है। इसिक्स निवास के मार्च के प्रतिकासिक है कि वर्ष



One person with a belief is a social power equal to 99 who have only interests

John Stuart Mill





ANXIETY IS THE DIZZINESS OF FREEDOM

SØREN KIERKEGAARD (1813–1855)

IN CONTEXT

BRANCH Metaphysics

APPROACH

Existentialism

BEFORE

1788 Immanuel Kant stresses the importance of freedom in moral philosophy in his Critique of Practical Reason

1807–22 Georg Hegel suggests a historical consciousness, or Geist, establishing a relationship between human consciousness and the world in which it lives

AFTER

1927 Martin Heidegger explores the concepts of Angst and existential guilt in his book Being and Time

1938 Jean-Paul Sartre lays down the foundations of his existentialist philosophy.

1946 Ludwig Wittgenstein acknowledges Kierkegaard's work in Culture and Value

developed in reaction to the German idealist thinking that dominated continental Europe in the mid 19th century, particularly that of Georg Hegel Kierkegaard wanted to refute Hegel's idea

When making decisions
we have absolute
freedom of choice

We realize that we can
choose to do nothing,
or anything

Our minds reel
at the thought
of this absolute
freedom.

A feeling of dread
or anxiety
accompanies
the thought

Anxiety is the dizziness of freedom.

of a complete philosophical system, which defined humankind as part of an inevitable historical development, by arguing for a more subjective approach. He wants to examine what "it means to be a human being", not as part of some great philosophical system, but as a self-determining individual.

Kierkegaard believes that our lives are determined by our actions, which are themselves determined by our choices, so how we make those choices is critical to our lives. Like Hegel, he sees moral decisions as a choice between the hedonistic (self-



Hamlet is caught on the edge of a terrible choice whether to kill his uncle or leave his father's death unaveriged Shakespeare's play demonstrates the anxiety of true freedom of choice

grat.fy.ng) and the ethica. But where Hegel thought this choice was largely determined by the historical and environmental conditions of our times, Kierkegaard believes that moral choices are absolutely free, and above all subjective. It is our will alone that determines our judgement, he says. However, far from being a reason for happiness, this complete freedom of choice provokes in us a feeling of anxiety or dread.

Kierkegaard explains this feeling in his book The Concept of Anxiety As an example, he asks us to consider a man standing on a cliff or tall building. If this man looks over the edge, he experiences two different kinds of fear the fear of falling, and fear brought on by the impulse to throw himself off the edge. This second type of fear, or anxiety, arises from the realization that he has absolute freedom to choose whether to jump or not, and this fear is as dizzying as his vertigo. Kierkegaard suggests that we experience the same anxiety in all our moral choices, when we realize that we have the freedom to make even the most terrifying decisions. He describes this anxiety as "the dizziness of freedom" and goes on to explain that although it induces despair it can also shake us from our unthinking responses by making us more aware of the available choices. In this way it increases our self-awareness and sense of personal responsibility

The father of existentialism

Kierkegaard's ideas were largely rejected by his contemporaries, but proved highly influential to later generations. His insistence on the importance and freedom of our choices, and our continual search for meaning and purpose, was to provide the framework for existentialism. This philosophy, developed by Friedrich Nietzsche and Martin Heidegger, was later fully defined by Jean Paul Sartre. It explores the ways in which we can live meaningfully in a godless universe, where every act is a choice, except the act of our own birth. Unlike these later thinkers, Kierkegaard did not abandon his faith in God, but he was the first to acknowledge the realization of self-consciousness and the "dizziness" or fear of absolute freedom.

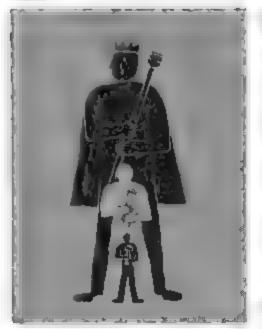


Søren Kierkegaard

Søren Kierkegaard was born in Copenhagen in 1813, in what became known as the Danish Golden Age of culture. His father, a wealthy tradesman, was both pious and melancholic, and his son inherited these traits, which were to greatly influence his philosophy. Kierkegaard studied theology at the University of Copenhagen, but attended lectures in philosophy. When he came into a sizeable inheritance. he decided to devote his life to philosophy. In 1837 he met and fell in love with Regine Olsen, and three years later they became engaged, but Kierkegaard broke off the engagement the following year, saying that his melancholy made him unsuitable for married life Though he never lost his faith in God, he continually criticized the Danish national church for hypocrisy. In 1855 he fell unconscious in the street, and died just over a month later.

Kev works

1843 Fear and Trembling 1843 Either/Or 1844 The Concept of Anxiety 1847 Works of Love



THE HISTORY OF ALL HITHERTO EXISTING SOCIETY IS THE HISTORY OF CLASS STRUGGLES

KARL MARX (1818-1883)

IN CONTEAT

BRANCH
Political philosophy

APPROACH Communism

BEFORE

c.1513 Niccolò Machiavelli discusses class struggles in ancient Rome and Renaissance Italy in *Discourses on Livy*.

1789 The French Revolution provides the template for most 19th-century philosophical arguments about revolution.

1800s Georg Hegel develops a theory of historical change through intellectual conflict.

AFTER

1880s Friedrich Engels tries to develop Marx's theories into a fully-fledged philosophy of historical materialism

1930s Marxism becomes the official philosophy of the Soviet Union and many other communist countnes.

an the complex history of the human species be reduced to a single formula? One of the greatest thinkers of the 19th century, Karl Marx, believed that it could. He opened the first chapter of his most famous work, The Communist Manifesto, with the claim that



Intellectual
debate was
widespread in
Germany at the
time Mark was
writing, though he
himself believed
that it was the
task of philosophy
not to discuss
ideas, but to bring
about real change

all historical change comes about as the result of an ongoing conflict between dominant (upper) and subordinate (lower) social classes and that the roots of this conflict he in economics

Marx believed that he had gained a uniquely important insight into the nature of society through the ages. Earlier approaches to history had emphasized the role of individual heroes and leaders, or stressed the role played by ideas, but Marx focused on a long succession of group conflicts, including those between ancient masters and slaves, medieval ords and serfs, and modern employers and their employees. It was conflicts between these classes, he claimed, that caused revolutionary change

The Communist Manifesto

Marx wrote the Manifesto with the German philosopher Friedrich Engels, whom he had met when they were both studying academic philosophy in Germany during the late 1830s Engels offered financial support, ideas, and superior writing skills, but Marx was

acknowledged as the real genius behind their combined publications

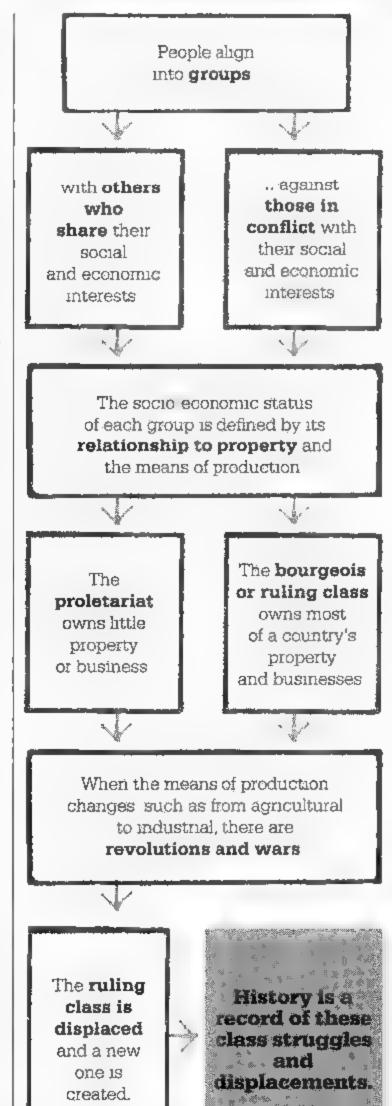
In their private manuscripts from the early and mid-1840s, Marx and Engels emphasized that while previous philosophers had only sought to interpret the world, the whole point of their activities was to change it. During the 1850s and 60s Marx refined his ideas in many short documents, including The Communist Manifesto, a pamphlet of about 40 pages.

The Manifesto seeks to explain the values and political plans of communism— a new belief system put forward by a smal, and relatively new group of radical German socialists. The Manifesto claims that society had simplified into two classes in direct conflict: the bourgeoisie (the capital-owning class) and the proletariat (the working class).

The word "bourgeoisie" is derived from the French word burgers, or burgher, a property-owning tradesman who had risen above the general populace to own and run his own business. Marx describes how the discovery and colonization of America, the opening of the Indian and Chinese markets. and the increase in the commodities that could be exchanged had, by the mid 19th century, led to the rapid development of commerce and industry. Craftsmen no longer produced enough goods for the growing needs of new markets, and so the manufacturing system had taken their place. As the Manifesto relates, "the markets kept growing demand ever rising."

Values of the bourgeoisie

Marx claims that the bourgeoisie, who controlled all this trade, had left no link between people other "than naked selfinterest, than callous 'cash payment' People were once valued for who they were, but the bourgeoisie "has resolved personal worth into exchange value." Moral religious, and even sentimental values had been cast aside, as everyone from scientists and lawyers to priests and poets—had been transformed into nothing but a paid laborer. In place of religious and political "illusions", Marx writes, the bourgeoisie had "substituted naked, shameless, direct, brutal exploitation." Charters that had once protected people's >>



freedom had been cast aside for one 'unconscionable freedom—Free Trade"

The only solution, according to Marx, was for all the instruments of economic production (such as land, raw materials tools, and factories) to become common property, so that every member of society could work according to their capacities, and consume according to their needs. This was the only way to prevent the rich from living at the expense of the poor

Dialectical change

The philosophy behind Mark's reasoning on the process of change came largely from his predecessor, Georg Hegel, who had described reality not as a state of affairs, but as a process of continual change. The change was caused, he said by the fact that every idea or state of affairs (known as the "thesis") contains within it an international conflict (the "antithesis") that eventually forces a change to occur, leading to a new idea or state of affairs (the "synthesis"). This process is known as the dialectic

Hegel believed that we can never experience things in the world as they are but only as they appear to us. For him, existence primarily consists of mind or spirit, so the journey of history, through countless cycles of the dialectic, is essentially the progress of spirit, or Geist, toward a state of absolute harmony But it is here that Hegel and Marx part company Marx insists that the process is not a journey of spiritual development but of real historical change. Marx claims that the final conflict-free state that lies at the end of the process is not the spiritual bliss that Hegel predicted but the perfect society, where everyone works harmoniously toward the good of a greater whole

The formation of classes

In earlier ages, humans had been entirely responsible for producing everything they needed—such as clothing, food and habitation—for themselves, but as the early societies began to form, people came to rely more on one another. This led to the form of "bargain making" described by the Scottish economist and philosopher Adam Smith, as people exchanged goods



The wealthy bourgeoisis enjoyed the hixines of life in the late 18th and 19th centuries, while the workers in their companies and on their estates endured terrible poverty

or labor. Marx agrees with Smith that this system of exchange led people to specialize in their labor, but he points out that this new specialization (or "job") had also come to define them. Whatever a person's specialization or job be it agricultural laborer or hereditary landowner it had come to dictate where he or she lived, what they are and what they wore, it also dictated with whom in society they shared interests, and with whom their interests lay in conflict. Over time, this led to the formation of distinct socio-economic classes, locked into conflict.

According to Marx, there have been four major stages in human history, which he sees as based on four different forms of property ownership the original tribal system of common property, the ancient communal and state system of ownership (where both slavery and private property began), the feudal or estate system of property, and the modern system of capitalist production. Each of these stages represents a different form of economic system, or "mode of production", and the transitions between them are marked in history by stormy political events, such as wars and revolutions, as one ruling class is displaced by another. The Communist Manifesto popularized the idea that through understanding the system of property ownership in any one society, in any particular éta, we can acquire the key to understanding its social relations

Rise of cultural institutions

Marx also believes that an analysis of the economic basis of any society allows us to see that as its system of property alters, so too do its "superstructures"-such as its politics, laws art, rengions, and philosophies. These develop to serve the interests of the ruling class, promoting its values and interests, and diverting attention away from political realities However, even this ruling class is not in fact, determining events or institutions Hegel had said that every age is held in the sway of the Zeitgeist, or spirit of the age, and Marx agrees But where Hegel saw the Zeitgeist as determined by an Absolute Spirit developing over time Marx sees it as defined by the social and economic relations of an era. These define the ideas or "consciousness" of individuals. and societies. In Marx's view, people do not make a stamp on their era, molding it into a particular shape, the era defines the people

Marx's revision of Hegel's philosophy from a journey of spirit to one of social and economic modes of production was also influenced by another German philosopher, Ludwig Feuerbach Feuerbach believed that traditional religion is intellectually false—it is not corroborated in any way by reasoning-and that it contributes to the general sum of human misery. He claimed that people make gods in their own image from an amalgamation of humanity s greatest virtues, and then cling to these gods and invented religions, preferring

their "dreams" to the real world People become alienated from themselves through an unfavorable comparison of their selves to a god that they have forgotten they created

Marx agrees that people cling to religion because they long for a place in

The Industrial Revolution

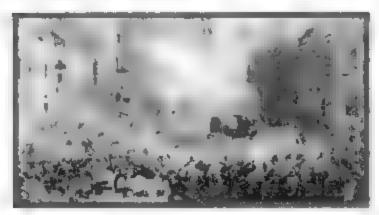
saw the formalization of specialized skills into paid employment. People then formed into groups or classes made up of those with similar socio economic status

which the self is not despised or alienated, but he says that this is not due to some authoritarian god, but to material facts in their actual, daily lives. The answer for Marx lies not only in the end of religion but in total social and political change

A Marxist utopia

In addition to its general account of human history leading to the rise of the bourgeois and proletarian classes. The Communist Manufesto makes a variety of other claims about politics, society and economics For example, it argues that the capitalist system is not merely exploitative, but also inherently financially unstable, leading to the recurrence of increasingly severe commercial crises, the growing poverty of the workforce, and the emergence of the proletanat as the one genuinely revolutionary class. For the first time in history, this revolutionary class would represent the vast majority of humanity These developments are seen as underpinned by the increasingly complex nature of the process of production. Marx predicted that as technology improved, it would lead to increasing anemployment. alienating more and more people from the means of production. This would split society in two between the large numbers of impovenshed people and the few who owned and controlled the means of production. Following the rules of the dialectic this conflict would result in a violent revolution to establish a new. classless society. This would be the »





Socialist-inspired revolutions swept through Europe just after the publication of *The Communist Manifesto* These included the February Revolution of 1848 in Paris

utopian, conflict-free society that marked the end of the dialectic. Marx thought this perfect society would not require government, but only administration, and this would be carried out by the leaders of the revolution the communist "party" (by which he means those who adhered to the cause, rather than any specific organization) Within this new kind of state (which Marx called the "dictatorship of the proletariat") people would enjoy genuine democracy and social ownership of wealth Shortly after this final change in the mode of production to a perfect society Marx predicted political power as it had previously been understood would come to an end, because there would be no good reason for political dissent or criminality

Political power

Marx predicted that the outcome of the intense class struggles in Europe between the bourgeoisie and the wage-earning working class would become evident only when the great mass of people had become property-less and were obliged to sell their labor for wages. The juxtaposition of poverty with the great wealth of the few would become increasingly obvious, he thought and communism would become increasingly attractive.

However, Marx did not expect the opponents of communism to give up their privileges easily. In every period of history, the ruling class has enjoyed the advantage of controlling both the government and the law as a way of reinforcing their economic dominance. The modern state, he said, was actually a "committee for managing the

affairs of the bourgeois class", and struggles by excluded groups to have their own interests taken into account—such as the battle to extend the right to vote—were simply short term ways in which the more fundamental economic conflict found expression. Marx saw political interests and parties as merely vehicles for the economic interests of the ruling classes, which were forced to appear as though they were acting in the general interest in order to gain and maintain power.

The road to revolution

Marx's originality lies in his combination of pre-existing ideas rather than the creation of new ones. His system uses insights from German idealist philosophers, especially Georg Hegel and Ludwig Feuerbach; from French political theorists, such as Jean Jacques Rousseau; and from British political economists, particularly Adam Smith Socialism had become a recognized political doctrine in the first half of the 19th century, and from this Marx derives several insights about property, class, exploitation, and commercial crises

Class conflict was certainly in the an when Marx composed the Manifesto. It was written just before a succession of revolutions against the monarchies of many continental European countries broke out in 1848 and 1849. In the preceding decades, a significant number of people had migrated from the countryside to the towns in search of work, although continental Europe had not yet seen the industrial development that had taken place in Britain A wave of discontent felt by the poor against the status quo was exploited by a variety of liberal and nationalist politicians, and revolutions rippled across Europe, although ultimately these uprisings were defeated and led to little permanent change

However the Manifesto acquired an iconic status during the 20th century, inspiring revolutions in Russia, China, and many other countries. The brilliance of Marx's theories has been proved wrong in practice: the extent of repression in Stalinist Russia, in Mao Zedong's China, and in Po. Pot's Cambodia, has widely discredited his political and historical theories.

Criticism of Marxism

Although Marx did not foresee communism being implemented in such a barbaric manner in these primarily agricultural societies, his ideas are nevertheless still open to a variety of criticisms First, Marx always argued for the inevitability of revolution. This was the essential part of the dialectic, but it is clearly too simplistic, as human creativity is always able to produce a variety of choices, and the dialectic fails to allow for the possibility of improvement by gradual reform

Second, Marx tended to invest the proletariat with wholly good attributes, and to suggest that a communist society would give fise somehow to a new type of human being. He never explained how the dictatorship of this perfect proletariat would be different from earlier, brutal forms of dictatorship, nor how it would avoid the corrupting effects of power

Third. Marx rarely discussed the possibility that new threats to liberty might emerge after a successful revolution, he assumed that poverty was the only real cause of criminality. His critics have also alleged that he did not sufficiently understand the forces of nationalism, and that, he gave no proper account of the role of personal leadership in politics. In fact, the 20th-century communist movement was to produce immensely powerful personality cults in virtually every country in which communists came to power

Lasting influence

Despite the criticism and crises that Marx's theories have provoked, his ideas have been hugely influential. As a powerful critic of commercial capitalism, and as an economic and socialist theorist. Marx is still considered relevant to politics and economics today. Many would agree with the 20th-century Russian-British philosopher, Isaiah Berlin, that the The Communist Manifesto is "a work of gentus." 🖿



Marxist states of the 20th century promoted themselves as utopias They produced a proliferation of paintings and statues glorifying the achievements of their happy, newly bberated citizens.



Karl Marx

The most famous revolutionary thinker of the 19th century was born in the German city of Trier. The son of a Jewish lawyer who had converted to Christianity, Marx studied law at Bonn University, where he met his future wife, Jenny von Westphalen. He then studied at the University of Berlin, before working as a journalist. The favor he bestowed on democracy in his writing led to censorship by the Prussian royal family, and he was forced into exile in France and Belgium. During this time he developed a unique theory of communism in collaboration with his German compatriot Friedrich Engels.

Marx returned to Germany during the 1848-49 revolutions, but after they were quashed he lived in exile in London for the rest of his life. He and his wife lived in extreme poverty, and when Marx died stateless at the age of 64, there were only 11 mourners at his funeral

Key works

1846 The German Ideology 1847 The Poverty of Philosophy 1848 The Communist Manifesto 1867 Das Kapital: Volume 1



ACT AS IF WHAT YOU DO MAKES A DIFFERENCE

WILLIAM JAMES (1842-1910)

IN CONTEST

BRANCH Epistemology

APPROACH

Pragmatism

BEFORE

1843 John Stuart Mill's A System of Logic studies the ways in which we some to believe something is true.

1870 Charles Sanders Perice describes his new pragmatist philosophy in How to Make Our Ideas Clear

AFTER

1907 Henri Bergson's Creative Evolution describes reality as a flow rather than a state

1921 Bertrand Russell explores teality as pure experience in The Analysis of Mind

1925 John Dewey develops a personal version of pragmatism, known as "instrumentalism", in Experience and Nature

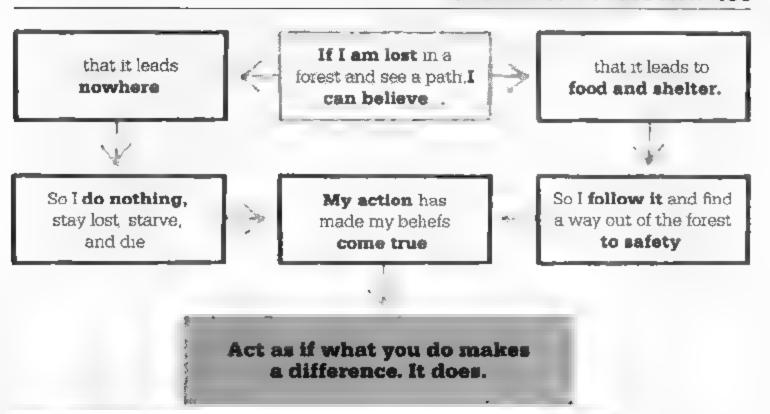
ver the course of the 19th century as the United States began to find its feet as an independent nation, philosophers from New England such as Henry David Thoreau and Ralph Waldo Emerson gave a recognizably American slant to

European Romantic ideas. But it was the following generation of philosophers, who lived almost a century after the Declaration of Independence, that came up with something truly original

The first of these, Charles Sanders
Peirce, proposed a theory of knowledge
he called pragmatism, but his work was
hardly noticed at the time, it fell to his
lifelong friend William James—godson
to Ralph Emerson—to champion Peirce's
ideas and develop them further

Truth and usefulness

Central to Peirce's pragmatism was the theory that we do not acquire knowledge simply by observing, but by doing, and that we rely on that knowledge only so long as it is useful, in the sense that it adequately explains things for us. When it no longer fulfils that function, or better explanations make it redundant, we replace it. For example, we can see by looking back in history how our ideas about the world have changed constantly from thinking that Earth is flat to knowing it to be round, from assuming that Earth is the center of the universe to realizing that it is just one planet in a vast cosmos The older assumptions worked perfectly adequately as explanations in their time, yet they are not true, and the universe itself has not changed. This demonstrates how knowledge as an explanatory tool is different from facts. Peirce examined the nature of knowledge in this way but James was to apply this reasoning to the notion of truth



For James, the truth of an idea depends on how useful it is, that is to say, whether or not it does what is required of it. If an idea does not contradict the known facts-such as laws of science-and it does provide a means of predicting things accurately enough for our purposes he says there can be no reason not to consider it true, in the same way that Peirce considered knowledge as a useful tool prespective of the facts. This interpretation of truth not only distinguishes it from fact, but also leads James to propose that "the truth of an idea is not a stagnant property inherent in it Truth happens to an idea, It becomes true, is made true by events. Its verity is in fact an event, a process 'Any idea, if acted upon, is found to be true by the action we take, putting the idea into practice is the process by which it becomes true. James also thinks that belief in an idea is an important factor in choosing to act upon it, and in this way belief is a part of the process that makes an idea true. If I am faced with a difficult decision, my belief in a particular idea will lead to a particular course of action and so contribute to its success. It is because of this that James. defines "true beliefs" as those that prove useful to the believer. Again, he is careful to distinguish these from facts, which he says "are not true. They simply are. Truth is the function of the beliefs that start and terminate among them "

The right to believe

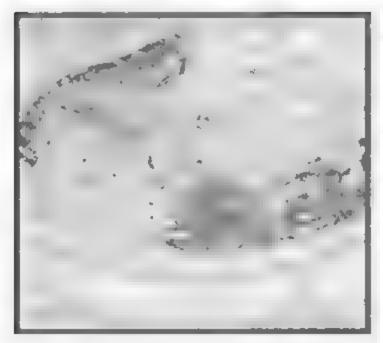
Every time we try to establish a new belief it would be useful if we had all the available evidence and the time to make a considered decision. But in much of life we do not have that luxury either there is not enough time to examine the known facts, or there is not enough evidence and we are forced to a decision. We have to rely on our beliefs to guide our actions, and James says that we have "the right to believe" in these cases

James explains this by taking the example of a man lost and starving in a forest. When he sees a path it is important for him to believe that the path will lead him out of the forest and to habitation, because if he does not believe it, he will not take the path and will remain lost and starving. But if he does, he will save himself. By acting on his idea that the path will lead him to safety, it becomes true. In x

Every way of classifying a thing is but a way of handling it for some particular purpose William James

The state of the s





The idea of a flat Earth served well as a "truth" for several thousand years, despite the fact that Earth is a sphere James claims that an idea's usefulness determines its truthfulness.

this way our actions and decisions make our belief in an idea become true. This is why James asserts "act as if what you do makes a difference"—to which he adds the typically concise and good humored rider. "it does

We must, however, approach this idea with caution, a shallow interpretation of what James is saying could give the impression that any belief, no matter how outlandish, could become true by acting upon it—which of course is not what he

meant. There are certain conditions that an idea must fulfil before it can be considered a justifiable belief. The available evidence must weigh in its favor and the idea must be sufficient to withstand criticism. In the process of acting upon the belief, it must continually justify itself by its usefulness in increasing our understanding or predicting results. And even then, it is only in retrospect that we can safely say that the belief has become true through our acting upon it.

Reality as a process

James was a psychologist as well as a philosopher, and he sees the implications of his ideas in terms of human psychology as much as in the theory of knowledge. He recognized the psychological necessity for humans to hold certain beliefs, particularly religious ones. James thinks that while it is not justifiable as a fact. belief in a god is useful to its believer if it allows him or her to lead a more fulfilled life or to overcome the fear of death. These things-a more fulfilled life and a fearless confrontation of death-become true, they happen as the result of a belief, and the decisions and actions based upon it

William James



Born in New York City, William James was brought up in a wealthy and intellectual family; his father was a famously eccentric

theologian, and his brother Henry became a well-known author. During his childhood he lived for several years in Europe, where he pursued. a love of painting, but at the age of 19 he abandoned this to study science. His studies at Harvard Medical School were interrupted by the ill health and depression that were to prevent him from ever practicing medicine. but he eventually as a " graduated and in 1872 took a teaching post in physiology at Harvard University His increasing

interest in the subjects of psychology and philosophy led him to write acclaimed publications in these fields, and he was awarded a professorship in philosophy at Harvard in 1880. He taught there until his retirement in 1907.

Key works

1890 The Principles of Psychology -1896 The Will to Believe 1902 The Varieties of Religious Experience 1907 Pragmatism Along with his pragmatic notion of truth, James proposes a type of metaphysics that he calls "radical empiricism " This approach takes reality to be a dynamic, active process, in the same way that truth is a process. Like the traditional empiricists before him. James rejected the rationalist notion that the changing world is in some way unreal, but he also went further to state that "for pragmatism, [reality] is still in the making", as truth is constantly being made to happen. This "stream" of reality he beneves, is not susceptible to empirical analysis either, both because it is in continual flux and because the act of observing it affects the truth of the analysis. In James's radical empiricism from which both mind and matter are formed, the ultimate stuff of reality is pure experience



b 🌑 The pragmatic method means looking away from principles and looking towards consequences

William James



Continuing influence

Pragmatism, proposed by Peirce and expounded by James, established America as a significant center for philosophical thought in the 20th century, James s pragmatic interpretation of truth influenced the philosophy of John Dewey, and spawned a "neopragmatist" school of thought in America that includes philosophers

such as Richard Rorty In Europe Bertrand Russelt and Ludwig Wittgenstein were indebted to James's metaphysics His work in psychology was equally influential, and often intimately connected with his philosophy, notably his concept of the "stream of consciousness which in turn influenced writers such as Virgima Woolf and James Joyce .

Religious bolist

can bring about extraordinary changes in people's lives, such as the healing of the sick at places of pagrimage This occurs regardless of whether or not a god actually exists

THE MODE WOOLD 1900-PRESENT

concerns of philosophy—such as asking what exists—were answered by science in the early 20th century. Albert Einstein's theories offered a more detailed explanation of the nature of the universe, and Sigmund Freud's psychoanalytic theories gave people a radically new insight into the workings of the mind. As a result, philosophers turned their attention to questions of moral and political philosophy, or since philosophy had become the province of professional academics, to the more abstract business of logic and linguistic analysis.

At the vanguard of this movement of logical analysis—which became known as analytic philosophy—was Gottlob Frege, who linked the philosophical process of logic with mathematics. His ideas were enthusiastically received by British philosopher Bertrand Russell, who went on to apply them to the analysis of mathematics and language. One of Russell's pupils Ludwig Wittgenstein, developed Russell's work on logic and language, but also made key contributions in areas as diverse as perception, ethics and aesthetics, becoming one of the greatest thinkers of the 20th

century Another slightly younger Viennese philosopher, Karl Popper, took his due from Einstein, and strengthened the link between scientific thinking and philosophy

In Germany philosophers rose to the challenge posed by Nietzsche's ideas with a philosophy based on the experience of the individual in a godless universe existentialism. Edmund Husserl's phenomenology (the study of experience) laid the groundwork, which was built on by Martin Heidegger, who was also greatly influenced by the Danish philosopher. Søren Kierkegaard

Wars and revolutions

Like all cultural activities, philosophy was affected by the massive political upheavals of the 20th century, but it also contributed to the ideologies that shaped those events. The revolution that formed the Soviet Union in the 1920s had its roots in Marxism, a 19th-century pontical philosophy. This theory eventually became more prevalent globally than any single religion.

In France, existentialism was made fashionable by Jean-Paul Sartre, Simone de Beauvoir and Albert Camus, who were all novelists. This trend was fundamental to



the direction that continental philosophy took in the last decades of the 20th century. The gap between popular and "high" culture widened after the 1960s, as the intellectual avant garde often decided to disregard public taste. Philosophy followed a similarly elitist path particularly after the death of Jean-Paul Sartre, whose Marxist existentialism, beloved of 1960s intellectuals—now had less of an audience.

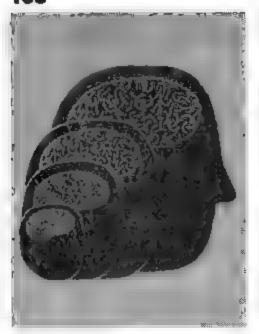
In the 1970s and 1980s continental philosophy was dominated by structuralism. a movement that grew from hterature based French philosophy Central to this movement was the notion of deconstructing" texts and revealing them to be inherently unstable, with many contradictory meanings. The theory's principal proponents—French theorists Louis Althusser Jacques Derrida, and Michel Foucault Innked their textual analyses with left-wing politics, while the analyst Jacques Lacan gave structuralism a psychoanalytic perspective. Their ideas were soon taken up by a generation of writers and artists working under the banner of "postmodernism," which rejected all possibility of a single, objective truth, viewpoint, or narrative

A more practical approach

Some philosophers of the period chose to focus on more pressing social, political, and ethical questions that had more relevance to life. Thinkers in postcolonial Africa, such as Frantz Fanon, began to examine race identity, and the problems inherent in any struggle for liberation. Later thinkers, such as Henry Odera Oruka, began to amass a new history of African philosophy questioning the rules governing philosophy itself, and what it should include

Continuing in the tradition of Simone de Beauvoir's existential feminist philosophy French philosophers such as Helène Cixous and Luce Ingaray added a postmodern perspective to feminism, but other thinkers on both sides of the Atlantic left postmodernism completely to one side Some, such as the American John Rawls and Germany's Jürgen Habermas, returned to examining important everyday concepts, such as justice and communication

The more practical approach to philosophy in the 21st century has led to a renewed public interest in the subject. There is no way of predicting what direction it will take, but philosophy is certain to continue to provide the world with thought-provoking ideas.



MAN IS SOMETHING TO BE SURPASSED

THE DIVION NOT TX SCHE (1844-1900)

IN CONTEXT

BRANCH

Ethics

APPROACH

Existentialism

BEFORE

380 BCE Plato explores the distinction between reality and appearance in his dialogue, The Republic.

1st century cs The Sermon on the Mount, in Matthew's gospel in the Bible, advocates turning away from this world to the greater reality of the world to come

1781 Immanuel Kant's Critique of Pure Reason argues that we can never know how the world is "in itself."

AFTER

1930s Nietzsche's work is used to help construct the mythology of Nazism.

1968 Michel Foucault's The Order of Things discusses the overcoming of "man."

something to be surpassed appears in Thus Spoke Zarathustra, perhaps his most famous book. It was written in three parts in 1883–84, with a fourth part added in 1885. The German philosopher used it to launch a sustained attack on the history of Western thought. He targets three

Christianity says that everything in this world is less important than that of the "next" after death

It says we should **turn away** from what seems important in this life, and try to transcend it.

But in doing this we turn away from life itself

Christianity's idea of "man" undermines us

> And besides God is dead!

We must surpass this limiting idea.

linked ideas in particular, first, the idea we have of "man" or human nature; second, the idea we have of God; and third, the ideas we have about morality, or ethics.

Elsewhere Nietzsche writes about philosophizing "with a hammer", and here he certainly attempts to shatter many of the most cherished views of the Western

philosophical tradition, especially in relation to these three things. He does so in a style that is astonishingly hot-headed and fevered, so that at times the book seems closer to prophecy than philosophy. It was written quickly, with Part I taking him only a few days to set down on paper. Even so, while Nietzsche's book does not have the calm, analytical tone that people have perhaps come to expect of philosophical works, the author still succeeds in setting out a remarkably consistent and hugely challenging vision.

Zarathuatro descenda

The name of Nietzsche's prophet,
Zarathustra, is an alternative name
for the ancient Persian prophet Zoroaster
The book begins by telling us that at the
age of 30 Zarathustra goes to live in
the mountains. For ten years he delights
in the solitude, but one dawn, he wakes
to find that he is weary of the wisdom he
has accumulated alone on the mountain.
So he decides to descend to the market
place to share this wisdom with the rest
of humankind.

On the way down to the town, at the foot of the hill, he meets with an old hermit. The two men have already met, ten years before, when Zarathustra first ascended the mountain. The hermit sees that

Zarathustra has changed during the past decade: when he crimbed the mountain the hermit says. Zarathustra carried ashes but now as he descends, he is carrying fire

Then the hermit asks Zarathustra a question why are you going to the trouble of sharing your wisdom? He advises Zarathustra to stay in the mountains warning him that nobody will understand his message. Zarathustra then asks a question what does the hermit do in the mountains? The hermit replies that he sings, weeps, laughs, mumbles, and praises God. On hearing this, Zarathustra himself laughs. Then he wishes the hermit well and continues on his way down the mountain. As he goes, Zarathustra says to himself. "How can it be possible. This old hermit has not yet heard that God is dead."

Behold the Superman

The idea of the death of God may be the most famous of al. Nietzsche's ideas and it is closely related both to the idea that man is something to be surpassed and to Nietzsche's distinctive understanding of morality. The relationship between these things becomes clear as the story continues.

When he reaches the town, Zarathustra sees that there is a crowd gathered around a tightrope walker who is about to »

Friedrich Nietzsche



Nietzsche was born in Prussia in 1844 to a religious family, his father, uncle, and grandfathers were al. Lutheran ministers. His father and younger brother died when he was a young child, and he was brought up by his mother. grandmother, and two aunts. At the age of 24 he became a professor at Basel University, where he met the composer Richard Wagner, who influenced him strongly until Wagner's anti-semitism forced Nietzsche to end their friendship: In 1870 he: contracted diphtheria and dysentery, and thereafter suffered continual ill health. He was forced to resign his professorship in 1879, and for the next ten

years traveled in Europe. In 1889 he collapsed in the street while attempting to prevent a horse from being and suffered some form of mental breakdown from which he never recovered. He died in 1900 aged 56.

Key works

1872 The Birth
of Tragedy
1883–85 Thus Spoke
Zarethustra
1886 Beyond Good
and Evil
1888 Twilight of the Idols



The prophet
Zoroaster
(c 628–551 scs),
also known as
Zarathustra
founded a reagion
based on the
struggle between
good and evil.
Nietzsche's
Zarathustra places
himself "beyond
good and evil."

perform, and he joins them. Before the acrobat has a chance to walk across his tope. Zarathustra stands up. It is at this point that he says, "Behold! I teach you the Superman!" He continues by telling the crowd the real point he wishes to convey. "Man is something to be surpassed.."

Zarathustra follows this with a long speech, but when he gets to the end, the crowd only laughs, imagining that the prophet is just another showman, or perhaps even a warm-up performer for the tightrope-walker.

In opening his book in this unusual way, Nietzsche seems to be betraying his own unease with the reception that his philosophy will receive, as if he is afraid that he will be seen as a philosophical showman without anything real to say If we want to avoid making the same mistake as the crowd gathered around Zarathustra and actually understand what Nietzsche is saying it is necessary to explore some of Nietzsche's core beliefs

Overturning old values

Nietzsche believes that certain concepts have become inextricably entangled humankind, morality, and God. When his character Zarathustra says that God is dead, he is not simply launching an attack upon religion, but doing something much bolder "God" here does not only mean the god that philosophers talk about or the religious pray to, it means the sum total of the higher values that we might hold. The death of God is not just the death

of a derty: it is also the death of all the so-called higher values that we have inherited

One of the central purposes of Nietzsche's philosophy is what he calls the "revaluation of all values", an attempt to call into question all of the ways that we are accustomed to thinking about ethics and the meanings and purposes of life. Nietzsche repeatedly maintains that in doing so he is setting out a philosophy of cheerfulness, which, although it overturns everything we have thought up until now about good and evil, nevertheless seeks to affirm life. He claims that many of the things that we think are "good" are, in fact, ways of limiting or of turning away from life.

We may think it is not "good" to make a fool of ourselves in public and so resist the urge to dance joyfully in the street. We may believe that the desires of the flesh are sinful, and so punish ourselves when they arise. We may stay in mind-numbing jobs, not because we need to, but because we feel it is our duty to do so. Nietzsche wants to put an end to such life-denying philosophies, so that humankind can see itself in a different way.

Blaspheming against life

After Zarathustra proclaims the coming of the Superman, he swiftly moves to condemn religion. In the past, he says the greatest blasphemy was to blaspheme against God, but now the greatest blasphemy is to blaspheme against life itself. This is the



Existing between the levels of animal and Superman, human life. Nietzsche says, is "a dangerous wayfaring, a dangerous looking-back, a dangerous trembling and halting."

error that Zarathustra believes he made upon the hillside: in turning away from the world, and in offering up prayers to a God who is not there, he was sinning against life

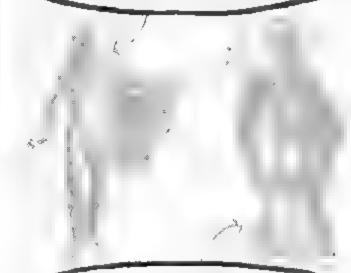
The history behind this death of God, or loss of faith in our higher values is told in Nietzsche's essay, How the "Real World" at last Became a Myth which was published in Twilight of the Idols The essay carnes the subtitle "History of an Error", and it is an extraordinarily condensed one page history of Western philosophy. The story begins, Nietzsche says, with the Greek philosopher Plato

The real world

Plate divided the world into an "apparent" world that appears to us through our senses. and a 'real" world that we can grasp through the intellect. For Plato, the world we perceive through the senses is not "real" because it is changeable and subject to decay Plato suggests that there is also an unchanging permanent "real world" that can be attained with the help of the intellect This idea comes from Plato's study of mathematics. The form or idea of a triangle for example, is eternal and can be grasped by the intellect. We know that a triangle is a three-sided, two-dimensional figure whose angles add up to 180°, and that this will always be true, whether anyone is thinking about it or not and however many triangles exist in the world. On the other hand, the triangular things that do exist in the world (such as sandwiches. pyramids, and triangular shapes drawn on a chalkboard), are triangular only in so far as they are reflections of this idea or form of the triangle

Influenced by mathematics in this way Plate proposed that the intellect can gain access to a whole world of Idea. Forms which is permanent and unchanging, whereas the senses have access only to the world of appearances So, for example, if we want to know about goodness, we need to have an intellectual appreciation of the Form of Goodness, of which the various examples of goodness in the world are only reflections This is an idea that has had far-reaching consequences for our understanding of the world, not least because, as Nietzsche

For Plato, everything in this world, even beauty is only a "shadow" of Forms in another world



Christianity sees this life as merely a forerunner to the more important "life after death"

Some religious and philosophies mast that a more important real world" exists elsewhere Nietzsche sees this as a myth that tragically prevents us from living fully now in this world

points out this way of dividing up the world makes the "real world" of the intellect the place where everything of value resides. In contrast, it makes the "apparent world" of the senses a world that is, relatively speaking unimportant

Christian values

Nietzsche traces the fortunes of this tendency to split the world into two and finds that the same idea appears within Christian thought. In place of the "real world" of Plato's Forms, Christianity substitutes an alternative "rea, world", a future world of heaven that is promised to the virtuous. Nietzsche beneves that Christianity views the world we live in now as somehow less real than heaven. but in this version of the "two worlds" idea the "real world" is attainable, albeit after death and on condition that we follow Christian rules in this life. The present world is devalued, as it is with Plate, except insofar as it acts as a stepping stone to the world beyond Nietzsche claims that Christianity asks us to deny the present life in favor of the promise of a life to come »



Existing between the levels of animal and Superman, human life, Nietzsche says, is "a dangerous wayfaring a dangerous looking back, a dangerous trembling and halting"

Both the Platonic and Christian versions of the idea that the world is divided into a "real" and an "apparent" one have profoundly affected our thoughts about ourselves. The suggestion that everything of value in the world is somehow "beyond" the reach of this world leads to a way of thinking that is fundamentally life-denying. As a result of this Platonic and Christian heritage, we have come to see the world we live in as a world that we should resent and disdain a world from which we should turn away. transcend, and certainly not enjoy. But in doing so, we have turned away from life itself in favor of a myth or an invention. an imagined "real world" that is situated elsewhere Nietzsche calls priests of all religions "preachers of death" because their teachings encourage us to turn from this world, and from nfe to death. But why does Nietzsche insist that God is dead? To answer this, we must look to the work of the 18th-century German philosopher Immanuel Kant, whose ideas are critical to understanding the philosophy behind Nietzsche's work

A world beyond reach

Kant was interested in the limits of knowledge. In his book Critique of Pure Reason he argued that we cannot know the world as it is "in itself" We cannot attain it with the intellect, as Plato believed nor is it promised to us after death as in the Christian view. It exists (we assume), but it is forever out of reach. The reasons that Kant uses to come up with this conclusion are complex, but what is important from Nietzsche's point of view is that if the real world is said to be absolutely unattainable-even to the wise or the virtuous, in this world or the next -then it is "an idea grown useless. superfluous" As a result it is an idea that we need to do away with. If God is dead Nietzsche is perhaps the person who stumbles across the corpse, nevertheless, it is Kant whose fingerprints are all over the murder weapon

Philosophy's longest error

Once we have dispensed with the idea of the "real world", the long held distinction between the "real world" and the "apparent world" begins to break down. In How the "Real World" at last Became a Myth. Nietzsche goes on to explain this as follows: "We have abolished the real world, what world is left? The apparent world, perhaps? But no! With the real world we have also abolished the apparent world " Nietzsche now sees the beginning of the end of philosophy's "longest error". its infatuation with the distinction between "appearance" and "reality". and the idea of two worlds. The end of this error Nietzsche writes, is the zenith of mankind—the high point of all humanity. It is at this point—in an essay written six years after Thus Spake Zarathustra -that Nietzsche writes "Zarathustra begins"

This is a key moment for Nietzsche because when we grasp the fact that there is only one world, we suddenly see the error that had put all values beyond this world. We are then forced to reconsider all our values and even what it means to be human. And when we see through these

philosophical illusions, the old idea of "man" can be surpassed. The Superman is Nietzsche's vision of a fundamentally lifeaffirming way of being. It is one that can become the bearer of meaning not in the world beyond, but here Superman is "the meaning of the Earth."

Creating ourselves

Nietzsche's writings did not reach a large audience in his lifetime, so much so that he had to pay for the publication of the fina. part of Thus Spoke Zarathustra himself But around 30 years after his death in 1900 the idea of the Superman fed into the rhetoric of Nazism through Hitler's readings. of Nietzsche's work. Nietzsche's ideas about. the Superman, and particularly his call for an eradication of the Jewish Christian morality that held away throughout Europe would have been attractive to Hitler as validation for his own aims. But where Nietzsche seemed to be searching for a return to the more rustic, life-affirming values of pagan Europe, Hitler took his writings as an excuse for unbridled violence and transgression on a grand scale. The consensus amongst scholars is that Nietzsche himself would have been hornfied by this turn of events. Writing in an era of

Nietzsche's writings were edited and censored by his anti-semitic sister Elizabeth who controlled his archive after he became insane. This allowed the Nazis to wilfully misinterpret them

The degree of introspection achieved by Nietzsche had never been achieved by anyone

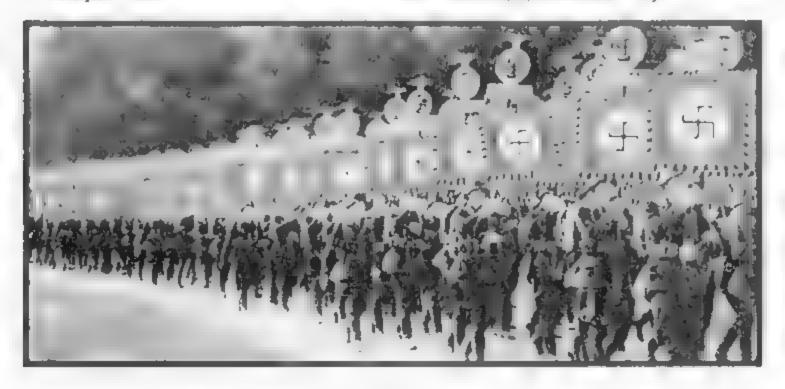
Sigmund Freud 🙉 🍙



extraordinary nationalism, patriotism, and colonial expansion, Nietzsche was one of the few thinkers to call these assumptions into question. At one point in Thus Spoke Zarathustra he makes it clear that he considers nationalism a form of alienation or failure. "Only where the state ends." Zarathustra says, "there begins the human being who is not superfluous"

Nietzsche's open-ended idea of human possibility was important to many philosophers in the period following World War II His ideas about religion and the importance of self-evaluation can be traced especially in the work of succeeding existentialists such as the French philosopher Jean-Paul Sartre Like Nietzsche's Superman, Sartre says that we must each define the meaning of our own existence

Nietzsche's damning criticisms of the Western philosophical tradition have had a huge impact not only on philosophy, but also on European and world culture, and they went on to influence countless artists and writers in the 20th century .





EXPERIENCE BY ITSELF IS NOT SCIENCE

EDMUND HUSSERL (1859-1938)

IN CONTEXT

BRANCH

Ontology

APPROACH

Phenomenology

BEFORE

5th century act Socrates uses argument to try to answer philosophical questions with certainty

17th century René Descartes uses doubt as a starting point for his philosophical method.

1874 Franz Brentano, Husserl's teacher, claims that philosophy needs a new scientific method

AFTER

From 1920s Martin Heidegger, Husserl's student, develops his teacher's method of phenomenology, leading to the birth of existentialism.

From 1930s Husserl's phenomenology reaches France influencing thinkers such as Emmanuel Levinas and Maurice Merleau-Ponty.

by a dream it at has preor cupied thinkers since the time of the ancient Greek philosopher Socrates, the dream of certainty. For Socrates, the problem was this: although we easily reach agreement.

Science aspires to **certainty** about the world

But science is empirical it depends upon experience

So experience by itself is not science. Experience is subject to assumptions and biases

on questions about things we can measure (for example. "how many olives are there in this jar?"), when it comes to philosophical questions such as "what is justice?" or "what is beauty?", it seems that there is no clear way of reaching agreement. And if we cannot know for certain what justice is, then how can we say anything about it at all?

The problem of certainty

Husserl was a philosopher who started life as a mathematician. He dreamed that problems such as "what is justice?" might be solved with the same degree of certainty with which we are able to solve mathematical problems such as "how many olives are in the jar?" In other words, he hoped to put all the sciences—by which he meant all branches of human knowledge and activity, from math, chemistry, and physics to ethics and politics—on a completely secure footing

Scientific theories are based on experience. But Husserl believed that experience alone did not add up to science, because as any scientist knows. experience is full of all kinds of assumptions, biases, and misconceptions. Husserl wanted to drive out all of these uncertainties to give science absolutely certain foundations

To do this, Husserl made use of the philosophy of the 17th century philosopher René Descartes Like Husserl Descartes wanted to free philosophy from al, assumptions, biases and doubts. Descartes wrote that although almost everything could be doubted he could not doubt that he was doubting

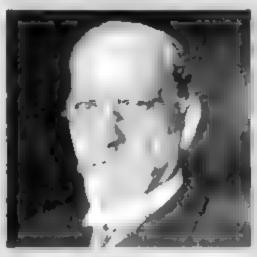
Phenomenology

Husserl takes up a similar approach to Descartes but uses it differently. He suggests that if we adopt a scientific attitude to experience, laying aside every single assumption that we have (even including the assumption that an external world exists outside of us), then we can start philosophy with a clean slate free of all assumptions. Husserl calls this approach phenomenology a phi osophical investigation of the phenomena of experience. We need to look at experience with a scientific attitude, laying to one side (or "bracketing out" as Husserl calls it) every single one of our assumptions. And if we look carefully of knowledge that might help us deal with the philosophical problems that have been with us since the very beginnings of philosophy

However, different philosophers following Husserl's method came to different results, and there was little agreement as to what the method actually was or how one carried it out. Toward the end of his career. Husserl wrote that the dream of putting the sciences on firm foundations was over But although Husserl's phenomenology faned to provide philosophers with a scientific approach to experience, or to solve philosophy's most enduring problems, it nevertheless gave buth to one of the richest traditions in 20th-century thought



Mathematics does not rely on empirical evidence which is full of assumptions. to reach its conclusions Husserl wanted to put all science (and all knowledge) on a similar foundation



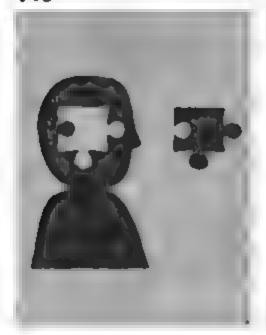
Edmund Husserl

Husserl was born in 1859 in Moravia, then a part of the Austrian empire. He started his career studying mathematics and astronomy, but after finishing his doctorate in mathematics he decided to take up philosophy

In 1887 Husserl married Malvine Steinschneider, with whom he had three children. He also became Privatdozent (private lecturer) at Halle, where he remained until 1901. He then accepted an associate professorship at the University of Göttingen, before becoming a professor of philosophy at the University of Freiburg in 1916, where Martin Heidegger was among his students. In 1933, Husserl was suspended from the university on account of his Jewish background, a decision in which Heidegger was implicated Husserl continued to write until his death in 1938

Key works

1901 Logical Investigations 1907 The Idea of Phenomenology 1911 Philosophy as a Rigorous Science 1913 Ideas toward a Pure Phenomenology



WE ONLY THINK WHEN WE ARE CONFRONTED WITH PROBLEMS

JOHN DEWEY (1859-1952)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Pragmatism

BEFORE

1859 Charles Darwin's On the Origin of Species puts human beings in a new, naturalistic perspective

1878 Charles Sanders Perrce's essay *How to Make our Ideas* **

Clear lays the foundations of the pragmatist movement

1907 Wilham James publishes
Praymatism A 'www hame to some
Old Ways of Thinking, popularizing
the philosophical term "pragmatism."

AFTER

From 1970 Jurgen Habermas applies pragmatic principles to social theory

1979 Richard Rorty combines
pragmatism with analytic philosophy
in Philosophy and the Mirror of Nature.

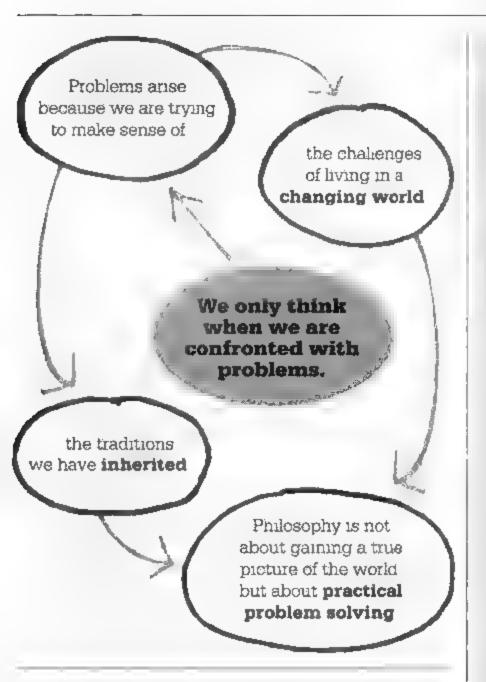
pragmatism, which arose in the US in the late 19th century. The founder is generally considered to be the philosopher Charles Sanders Peirce, who wrote a groundbreaking essay in 1878 called How to Make our Ideas Clear

Pragmatism starts from the position that the purpose of philosophy, or "thinking", is not to provide us with a true picture of the world but to help us to act more effectively within it. If we are taking a pragmatic perspective, we should not be asking "is this the way things are?" but rather "what are the practical implications of adopting this perspective?"

For Dewey, philosophical problems are not abstract problems divorced from people's lives. He sees them as problems that occur because humans are living beings trying to make sense of their world, struggling to decide how best to act within it Philosophy starts from our everyday human hopes and aspirations and from the problems that arise in the course of our lives. This being the case. Dewey thinks that philosophy should also be a way of finding practical responses to these problems. He believes that philosophizing is not about being a "spectator" who looks at the world from afar, but about actively engaging in the problems of life

Evolving creatures

Dewey was strongly influenced by the evolutionary thought of the naturalist Charles Darwin, who published On The Origin of Species in 1859. Darwin described humans as living creatures who are a part of the natural world. Like the other animals humans have evolved in response to their changing environments. For Dewey, one of the implications of Darwin's thought is that it



requires us to think of human beings not as fixed essences created by God, but instead as natural beings. We are not souls who belong in some other, non-material world, but evolved organisms who are trying to do our best to survive in a world of which we are inescapably a part

Everything changes

Dewey also takes from Darwin the idea that nature as a whole is a system that is in a constant state of change, an idea that itself echoes the philosophy of the ancient Greek philosopher Heraclitus, When Dewey comes to think about what philosophical problems are, and how they arise, he takes this insight as a starting point

Dewey discusses the idea that we only think when confronted with problems in an essay entitled Kant and the Philosophic Method (1884). We are, he says, organisms that find ourselves having to respond to a world that is subject to constant change and flux. Existence is a risk of a gamble and the world is fundamentally unstable. We depend upon our environment to be able to »



John Dewey

John Dewey was born in Vermont, USA, in 1859. He studied at the University of Vermont, and then worked as a schoolteacher for three vears before returning to undertake further study in psychology and philosophy. He taught at various leading universities for the remainder of his life, and wrote extensively on a broad range of topics, from education to democracy, psychology, and art. In addition to his work as a scholar, he set up an educational institutionthe University of Chicago Laboratory Schoolswhich put into practice his educational philosophy of learning by doing. This institution is still running today. Dewey's broad range of interests, and his abilities as a communicator, allowed his influence on American public life to extend far beyond the Laboratory Schools. He wrote about philosophy and social issues until he died in 1952 at the age of 92

Key works

1910 How We Think 1925 Experience and Nature 1929 The Quest for Certainty 1934 Art as Experience

• We do not solve philosophical problems, we get over them

John Dewey 🌘

environments in which we find ourselves are themselves always changing. Not only this, but these environments do not change in a predictable fashion. For several years there may be a good grop of wheat, for instance, but then the harvest fails. A sauor may set sail under fine weather, only to find that a storm suddenly blows up out of nowhere. We are healthy for years, and then disease strikes us when we least expect it.

In the face of this uncertainty, Dewey says that there are two different strategies we can adopt. We can either appeal to higher beings and hidden forces in the universe for help, or we can seek to understand the world and gain control of our environment.

Appeasing the gods

The first of these strategies involves attempting to affect the world by means of magical rites, ceremonies, and sacrifices. This approach to the uncertainty of the world, Dewey believes, forms the basis of both religion and ethics.

In the story that Dewey tells, our ancestors worshipped gods and spirits as a way of trying to ally themselves with the "powers that dispense fortune". This scenario is played out in stories from around the world in myths and legends such as those about unfortunate seafarers who pray to gods or saints to caim the storm, and thereby survive. In the same way, Dewey believes, ethics arises out of the attempts our ancestors made to appease hidden forces; but where they made sacrifices, we strike bargains with the gods, promising

to be good if they spare us from harm

The alternative response to the uncertainties of our changing world is to develop various techniques of mastering



We no longer employ sacrifice as a way to ask for help from the gods, but many people find themselves offering up a silent promise to be good in return for help from some higher being

the world so that we can live in it more easily. We can learn the art of forecasting the weather, and build houses to shelter ourselves from its extremes, and so on Rather than attempting to ally ourselves with the hidden powers of the universe, this strategy involves finding ways of revealing how our environment works, and then working out how to transform it to our benefit.

Dewey points out that it is important to realize that we can never completely control our environment or transform it to such an extent that we can drive out all uncertainty. At best, he says, we can modify the risky uncertain nature of the world in which we find ourselves. But life is inescapably risky

A luminous philosophy

For much of human history, Dewey writes, these two approaches to dealing with the riskiness of life have axisted in tension with each other, and they have given rise to two different kinds of knowledge: on the one hand, ethics and religion, and



scientific experiments such as those performed by Benjamin Franklin in the 1740s help us gain control over the world. Dewey thought philosophical theories should be equally useful

asks or does it make it more opaque"? Here Dewey is agreeing with Peirce that philosophy's purpose is to make our ideas and our everyday experience clearer and easier to understand. He is critical of any philosophical approaches that ultimately make our experience more puzzling, or the world more mysterious.

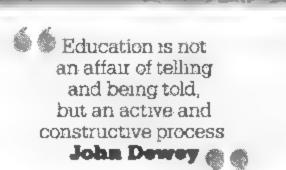
Second, he thinks we should judge a philosophica, theory by asking to what extent it succeeds in addressing the problems of living. Is it useful to us, in our everyday lives? Does it, for instance, "yield the enrichment and increase of power that we have come to expect from new scientific theories?

on the other hand, arts and technologies Or, more simply tradition and science Philosophy, in Dewey's view, is the process by means of which we try to work through the contradictions between these two different kinds of response to the problems in our lives. These contradictions are not just theoretical, they are also practical. For example, I may have inherited innumerable traditional beliefs about ethics, meaning, and what constitutes a "good life", but I may find that these beliefs are in tension with the knowledge and understanding that I have gained from studying the sciences In this context philosophy can be seen as the art of finding both theoretical and practical responses to these problems and contradictions

There are two ways in which to judge whether a form of philosophy is successful First, we should ask whether it has made the world more intelligible. Does this particular philosophical theory make our experience "more luminous", Dewey

A practical influence

A number of philosophers, such as Bertrand Russell, have criticized pragmatism by claiming that it has simply given up on the long philosophical quest for truth Nevertheless, Dewey's philosophy has been enormously influential in America. Given that Dewey places such an overriding emphasis on responding to the practical problems of life, it is perhaps unsurprising that much of his influence has been in practical realms, such as in education and in politics.





THE ROAD TO HAPPINESS LIES IN AN ORGANIZED DIMINUTION OF WORK

BERTRAND RUSSELL (1872-1970)

IN CONTEXT

BRANCH Ethics

APPROACH

Analytic philosophy

BEFORE

1867 Karl Marx publishes the first volume of Capital

1905 In The Protestant Ethic and the Spirit of Capitalism, German sociologist Max Weber argues that the Protestant work ethic was partly responsible for the growth of capitalism.

AFTER

1990s Growth of the trend of "downshifting", promoting fewer working bours.

2005 Tom Hodgkinson, editor of the British magazine The idler, publishes his leisure-praising book How To Be Idle.

2009 British philosopher Alain de Botton explores our working lives in The Pleasures and Sorrows of Work

he British philosopher Bertrand
hasser was no stranger to had a
work. His collected writings fill
countless volumes, he was responsible for
some of the most important developments
in 20th-century philosophy, including the

founding of the school of analytic philosophy, and throughout his long life—he died aged 97—he was a tireless social activist. So why is this most active of thinkers suggesting that we should work less?

Russell's essay In Praise of Idleness was first published in 1932, in the middle of the Great Depression, a period of global economic crisis following the Wall Street Crash of 1929 It might seem distasteful to promote the virtues of idleness at such a time, when unemployment was rising to a third of the working population in some parts of the world For Russell however, the economic chaos of the time was itself the result of a set of deep-rooted and mistaken attitudes about work. Indeed, he claims that many of our ideas about work are little more than superstitions, which should be swept away by rigorous thinking.

What is work?

Russell begins by defining work, which he says is of two kinds. First, there is work aimed at "altering the position of matter at or near the earth's surface relative to other such matter." This is the most fundamental sense of work—that of manual labor. The second kind of work is "telling other people to alter the position of matter relative to other such matter." This second kind of work, Russell says, can be extended indefinitely—not only can you have people employed to supervise people who move matter, but others can be employed to supervise the supervisors, or give advice

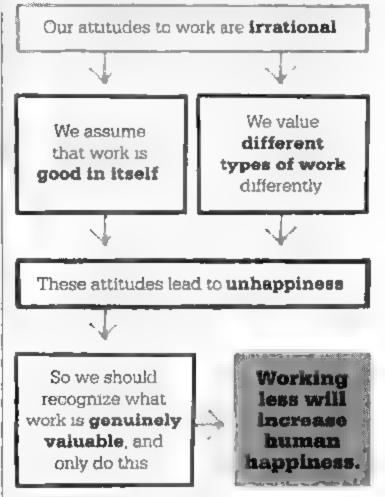


The Great Depression was the worst economic depression of the 20th century. For Russell, it highlighted the need for a critique of capitalism and a re-evaluation of the ethics of work.

on how to employ other people, while still more can be employed to manage the people who give advice on how to employ people, and so on. The first kind of work, he says, tends to be unpleasant and badly paid, while the second tends to be more pleasant, and better paid. These two types of work define two types of workerthe laborer and the supervisor—and these in turn relate to two social classes—the working class and the middle class. But to these Russell adds a third class, who he claims has a lot to answer for-that of the leisured landowner who avoids all work. and who depends on the labor of others to support his or her idleness

According to Russell, history is littered with examples of people working hard all their lives and being allowed to keep just enough for themselves and their families to survive, while any surplus they produce is appropriated by warriors, priests, and the leisured ruling classes. And it is always these beneficiaries of the system, says Russell, who are heard extolling the virtues of "honest toil", giving a moral gloss to a system that is manifestly unjust. And this fact alone, according to Russell, should prompt us to re-evaluate the ethics of work, for by embracing "honest toil" we comply with and even promote our own oppression.

Russell's account of society, with its emphasis on the struggle between classes, owes something to the thought of the



19th-century philosopher Karl Marx, although Russell was always uneasy with Marxism, and his essay is as critical of Marxist states as it is of capitalist states. His view also owes much to Max Weber's book The Protestant Ethic and the Spirit of Capitalism, first published in 1905, particularly Weber's examination of the moral claims that underlie our attitudes to work—claims that Russell insists should be challenged

For example, not only do we see work as a duty and an obligation we also see different types of work as occupying a hierarchy of virtue. Manual work is generally considered less virtuous than more skilled or interectual work, and we tend to reward people in accordance with this perceived virtue rather than for what they produce. And given that we consider work itself to be inherently virtuous, we tend to see the unemployed as lacking in virtue.

The more we think about it, the more it seems that our attitudes toward work are both complex and incoherent. What, then, can be done? Russell's suggestion is that we look at work not in terms of these curious moral ideas that are a relic of earlier times, but in terms of what »

makes for a full and satisfying human life. And when we do this, Russell believes, it is hard to avoid the conclusion that we should all simply work less. What, Russell asks, if the working day were only four hours long? Our present system is such that part of the population can be overworked, and so miserable, while another part can be totally unemployed and so also miserable. This, it seems, does not benefit anyone.

The importance of play

Russell's view is that reducing our working hours would free us to pursue more creative interests. "Moving matter about," Russell writes, 'is emphatically not one of the ends of human life " If we allow work to occupy every waking hour, we are not hving fully Russell beneves that lessure previously something known only to the privileged few is necessary for a rich and meaningful life. It might be objected that nobody would know what to do with their time if they worked only for four hours a day, but Russell regrets this. If this is true he says, "it is a condemnation of our civilization." suggesting that our capacity for play and light-heartedness has been eclipsed by the cult of efficiency. A society that took

Immense harm
is caused by
the belief that
work is virtuous
Bertrand Russell

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lessure seriously, Russell believes, would be one that took education seriously—because education is surely about more than training for the workplace. It would be one that took the arts seriously because there would be time to produce works of quality without the struggle that artists have for economic independence Moreover, it would be one that took the need for enjoyment seriously Indeed Russell beneves that such a society would be one in which we would lose the taste for war because, if nothing else, war would involve "long and severe work for all"

The balanced life

Russell's essay may appear to present something of a Utopian vision of a world in which work is reduced to a minimum. It is not entirely clear how even if it were possible to reduce the working day to four

Bertrand Russell



Bertrand Russell was born in Wales in 1872 to an aristocratic family He had an early interest in mathematics and went on to study the There he met the philosopher Alfred North Whitehead with whom he later collaborated on the Principle Mathematics, a book that established him as one of the leading philosophers of his era it was also at Cambridge that he met, and deeply influenced the philosopher Ludwig Wittgenstein

Russell wanted philosophy to speak to ordinary people. He was a social activist, a pacifist, an educationalist, an advocate of atheism. and a campaigner
against nuclear arms,
as well as the author
of numerous popular
works of philosophy
He died of influenza
in February, 1970

Key works

1903 The Principles
of Methematics
1910, 1912, and 1913
(3 vols) Principle
Mathematics
1914 Our Knowledge
of the External World
1927 The Analysis
of Matter
1956 Logic and
Knowledge

The morality of work is the morality of slaves, and the modern world has no need of slavery Bortrand Russell

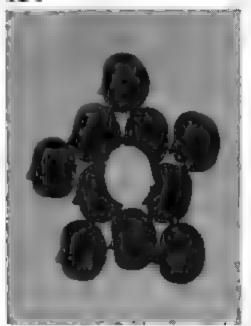
hours, this change would lead to the social revolution that Russell claims Nor is Russell's faith in the idea that industrialization can ultimately free us from manual labor entirely convincing The raw materials for industrial production still need to come from somewhere. They need to be mined

Leisure time, for Russell, should no longer be spent merely recovering from work. On the contrary it should constitute the largest part of our lives and be a source of play and creativity

and refined and exported to the place of production, all of which depends on manual labor Despite these problems, Russell's reminder that we need to look more closely at our attitudes to work is one that remains relevant today. We take as "natural" the length of the working week and the fact that some kinds of work are rewarded more than others. For many of us, neither our work nor our leisure are as fulfilling as we believe they could be, and at the same time we cannot help feeling that idleness is a vice Russell's idea reminds us that not only do we need to scrutinize our working lives, but that there is a virtue and a usefulness to lounging. loafing and idling As Russell says Hitherto we have continued to be

as energetic as we were before there were machines in this we have been foonsh but there is no reason to go on being foolish forever " •





ONLY AS AN INDIVIDUAL CAN MAN BECOME A PHILOSOPHER

KARL JASPERS (1883-1969)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Existentialism

BEFORE

1800s Sørøn Kierkegaard writes of philosophy as a matter of the individual's struggle with truth.

1880s Friedrich Nietzsche says that "God is dead", there are no absolute truths, and we must rethink all our values.

1920s Martin Heidegger claims that philosophy is a matter of our relationship with our own existence.

ARTER

From 1940 Hannah Arendt's ideas of freedom are influenced by "
Jaspers' philosophy.

From 1950 Hans-Georg Gadamer § explores the idea that philosophy progresses through a fusion of individual perspectives.

or some, philosophy is a way to discover objective truths about the world. For German philosopher and psychiatrist Karl Jaspers, on the other hand, philosophy is a personal struggle. Strongly influenced by the philosophers. Kierkegaard and Nietzsche, Jaspers is an



The philosopher lives in the invisible realm of the spirit. struggling to tealize truth. The thoughts of other, companion philosophers act as signposts towards potential paths to understanding.

existentialist who suggests that philosophy is a matter of our own attempts to realize truth. Since philosophy is an individual struggle, he writes in his 1941 book *On my Philosophy*, we can philosophize only as individuals. We cannot turn to anybody else to tell us the truth, we must discover it for ourselves, by our own efforts

A community of individuals

Although in this sense truth is something that we realize alone, it is in communication with others that we realize the fruits of our efforts and raise our consciousness beyond its limits. Jaspers considers his own philosophy "true" only so far as it aids communication with others. And while other people cannot provide us with a form of "ready-made truth", philosophy remains a collective endeavor. For Jaspers, each individual's search for truth is carried out in community with all those "companions in thought" who have undergone the same personal struggle.



LOGIC IS THE LAST SCIENTIFIC INGREDIENT OF PHILOSOPHY

RUDOLF CARNAP (1891-1970)

IN CONTEXT

BRANCH

Philosophy of science

APPROACH

Logical positivism

BEFORE

1890 Gottlob Frege starts to explore the logical structures of language.

1921 Ludwig Wittgenstein writes that philosophy is the study of the limits of language.

AFTER

1930s Karl Popper proposes that science works by means of falsifiability: no amount of positive proofs can prove something to be true, whereas one negative result confirms that a theory is incorrect,

1960s Thomas Kuhn explores the social dimensions of scientific progress, undermining some of the tenets of logical positivism.

ne of the problems for 20th-century philosophy is determining a role for philosophy given the success of the natural sciences. This is one of the main concerns of German-born Rudolf Carnap in The Physical Language as the Universal Language of Science (1934), which suggests that philosophy's proper function—and its primary contribution to



Rudolf Carnap



science—is the analysis and clarification of scientific concepts

Carnap claims that many apparently deep philosophical problems—such as metaphysical ones—are meaningless, because they cannot be proved or disproved through experience. He adds that they are also in fact pseudo-problems caused by logical confusions in the way we use language.

Logical language

Logical positivism accepts as true only strictly logical statements that can be empirically verified. For Camap philosophy a real task is therefore the logical analysis of language (in order to discover and rule out those questions that are, strictly speaking meaningless), and to find ways of talking clearly and unambiguously about the sciences

Some philosophers, such as Willard Quine and Karl Popper, have argued that Carnap's standards for what can be said meaningfully are too exacting and present an idealized view of how science operates, which is not reflected in practice. Nevertheless, Carnap's reminder that language can fool us into seeing problems that are not really there is an important one.



THE LIMITS OF MY LANGUAGE ARE THE LIMITS OF MY WORLD

LUDWIG WITTGENSTEIN (1889-1951)

IN CONTEXT

BRANCH
Philosophy of language

APPROACH

Logic

BEFORE

4th century ack Anstotle sets the foundations of logic

Late 19th century Gottlob Frege develops the foundations of modern logic.

Early 20th century Bertrand Russell develops notation that translates natural language into logical propositions

AFTER

1920s Ideas in the Tractatus are used by philosophers of the Vienna Circle, such as Monitz Schlick and Rudo.f Carnap, to develop Logical Positivism.

From 1930 Wittgenstein rejects the ideas expressed in the *Tractatus*, and begins to explore very different ways of viewing language.

Philosophicus is perhaps one of the most forbidding texts in the history of 20th century philosophy Only around 70 pages long in its English translation, the book is made up of

Language is
made up of
propositions
assertions about
things which may
be true or false

The world is made up of facts things are a certain way

Propositions are "pictures" of facts, in the same way that maps are pictures of the world

Any proposition that does not picture facts is meaningless for example killing is bad."

My language is therefore limited to statements of facts about the world

The limits of my language are the limits of my world.

a series of highly condensed and technical numbered remarks

In order to appreciate the full significance of the *Tractatus*, it is important to set it within its philosophical context. The fact that Wittgenstein is talking about the

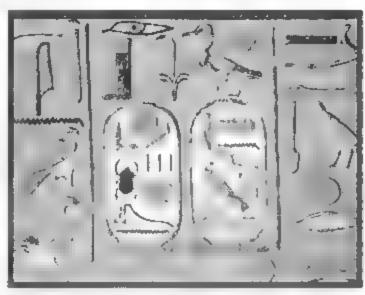
"limits" of my language and my world sets him firmly within the philosophical tradition that stems from the 18th-century German philosopher Immanuel Kant In The Critique of Pure Reason, Kant set out to explore the limits of knowledge by posing questions such as "What can I know?" and "What things will be forever outside of human understanding?" One reason that Kant asked such questions was that he believed many problems in philosophy alose because we fail to recognize the limitations of human understanding. By turning our attention back onto ourselves and asking about the necessary limits of our knowledge, we can then either resolve, or even perhaps dissolve, nearly all of the philosophical problems of the past

The Tractatus tackles the same kind of task that Kant did, but does so in a far more radical fashion. Wittgenstein states that he is setting out to make clear what can be meaningfully said. In much the same way that Kant strives to set the limits of reason, Wittgenstein wants to set the limits of language and, by implication, of all thought. He does this because he suspects that a great deal of philosophical discussion and disagreement is based on some fundamental errors in how we go about thinking and talking about the world.

Logical structure

For all of their apparent complexity, Wittgenstein's central ideas in the Tractatus are essentially based on a fairly simple principle, that both language and the world are formally structured, and that these structures can be broken down into their component parts. Wittgenstein attempts to lay bare the structures both of the world and of language, and then to show the way they relate to each other. Having done this, he attempts to draw a number of wide-reaching philosophical conclusions.

If we are to understand what Wittgenstein means when he says that simits of my language are the limits of my world, we need to ask what he means by the words "world" and

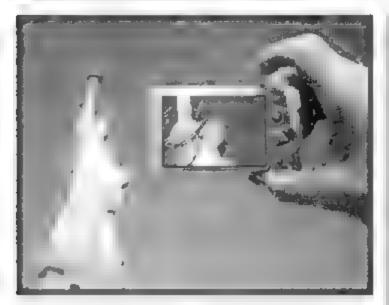


The ancient Egyptians arranged symbols and stylized images of objects in the world, known as hieroglyphs, into logically structured sequences to create a form of written language.

"language", because he does not use these words in the everyday sense we might expect. When he talks about language, the debt Wittgenstein owes to the British philosopher Bertrand Russell becomes apparent. For Russell, who was an important figure in the development of philosophical logic, everyday language was inadequate for talking clearly and precisely about the world. He believed that logic was a "perfect language" which excluded all traces of ambiguity so he developed a way of translating everyday language into what he considered a logical form.

Logic is concerned with what are known in philosophy as propositions. We can think of propositions as assertions that it is possible for us to consider as being either true or false. For example, the statement "the elephant is very angry" is a proposition, but the word "elephant" is not. According to Wittgenstein's Tractatus meaningful language must consist solely of propositions. "The totality of propositions," he writes, "is language."

Knowing a little about what Wittgenstein means by language, we can now explore what he means by "the world " The Tractatus begins with the claim that "the world is all that is the case." This might appear to be straightforward and robustly matter of fact, but taken on its own, it is not entirely clear what Wittgenstein means by this statement. He goes on to write "



A digital image, although not the same sort of object as the one it depicts, has the same "logical form" Words only represent reality for Wittgenstein if, again both have the same logical form

that "the world is the totality of facts not of things" Here we can see a parallel between the way that Wittgenstein treats language and the way he is treating the world. It may be a fact, for example, that the elephant is angry or that there is an elephant in the foom, but an elephant just by itself is not a fact.

From this point, it begins to become clear how the structure of language and that of the world might be related Wittgenstein says that language "pictures" the world. He formulated this idea during World War I, when he read in a newspaper about a court case in Paris The case concerned a car accident, and the events were re-enacted for those present in court using model cars and model pedestrians to represent the cars and pedestrians in the real world. The model cars and the model pedestrians were able to depict their counterparts, because they were related to each other in exactly the same way as the real cars and real pedestrians involved in the accident Similarly, all the elements depicted on a map are related to each other in exactly the same way as they are in the landscape that the map represents. What a picture shares with that which it is depicting, Wittgenstein says, is a logical form

It is important here to realize that we are talking about logical pictures, and

not about visual pictures. Wittgenstein presents a useful example to show what he means. The sound waves generated by a performance of a symphony the score of that symphony, and the pattern formed by the grooves on a gramophone recording of the symphony all share between them the same logical form. Wittgenstein states "A picture is laid against reality like a measure" In this way it can depict the world

Of course, our picture may be incorrect. It may not agree with reality, for example, by appearing to show that the elephant is not angry when the elephant is, in fact, very angry. There is no middle ground here for Wittgenstein, Because he starts with propositions that are, by their very nature, true or false, pictures also are either true or false.

Language and the world, then, both have a logical form; and language can speak about the world by picturing the world, and picturing it in a fashion that agrees with reality it is at this point that Wittgenstein's idea gets really interesting, and it is here that we can see why Wittgenstein is interested in the limits of language

Consider the following idea: "You should give half of your salary to charity". This is not picturing anything in the world in the sense meant by Wittgenstein What can be said—what Wittgenstein calls the "totality of true propositions"— is merely the sum of all those things that are the case, or the natural sciences.

Discussion about religious and ethical values is for Wittgenstein, strictly meaningless. Because the things that we are attempting to talk about when we discuss such topics are beyond the limits of the world, they also lie beyond the limits of our language Wittgenstein writes, "It is clear that ethics cannot be put into language."

Beyond words

Some readers of Wittgenstein, at this point claim that he is a champion of the sciences, driving out vague concepts involved in talk of ethics, religion, and the like But something more complex is

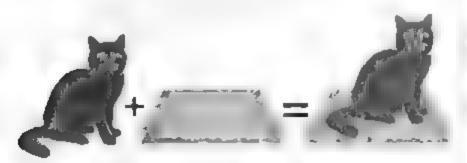
going on. Wittgenstein does not think that the "problems of life are nonsensical Instead, he believes that these are the most important problems of all It is simply that they cannot be put into words, and because of this they cannot become a part of philosophy. Wittgenstein writes that these things, even though we cannot speak of them, nevertheless make themselves manifest, adding that "they are what is mystical."

All of this, however, has serious repercussions for the propositions that he within the Tractatus itself. After all, these are not propositions that picture the world. Even logic, one of Wittgenstein's major tools, does not say anything about the world Is the Tractatus, therefore, nonsense? Wittgenstein himself was fearless in following his argument to its conclusion, ultimately recognizing that the answer to such a question must be yes. Anybody who understands the Tractatus properly, he claims, will eventually see that the propositions used in it are nonsense, too. They are like the steps of a philosophical ladder that helps us to climb altogether beyond the problems of philosophy, but which we can kick away once we have ascended

Change of direction

After completing the Tractatus, Wittgenstein concluded that there were no more philosophical problems left to resolve, and so abandoned the discipline However, over the course of the 1920s. and 1930s, he began to question his earlier thinking, becoming one of its fiercest critics. In particular he questioned his once firmly held belief that language consists solely of propositions, a view that ignores much of what we do in our everyday speech from telling jokes to cajoling to scolding

Nevertheless, despite all of its problems the Tractatus remains one of the most challenging and compelling works of Western philosophy—and ultimately one of the most mysterious



Philosophy demands logical unambiguous language Wittgenstein concludes, therefore, that it can only be made up of propositions, or statements of fact, such as "the cat sat on the mat", which can be clearly divided into their component parts



Ludwig Wittgenstein

Born into a wealthy Viennese family in 1889, Wittgenstein first studied engineering and in 1908 traveled to England to continue his education in Manchester, However, he soon developed an interest in logic, and by 1911 had moved to Cambridge to study under the philosopher Bertrand Russell

During World War I, he served on the Russian front and in Italy, where he was taken prisoner. Around this time, he began the Tractatus Logico-Philosophicus, which was published in 1921.

Believing that the Tractatus resolved all the problems of philosophy. Wittgenstein now embarked on an itinerant career as a schoolteacher, gardener, and architect. But after developing criticisms of his earlier ideas, he resumed his work at Cambridge in 1929. becoming a professor there in 1939 He died in 1951.

Key works

1921 Tractatus Logico-Philosophicus 1953 Philosophical Investigations 1958 The Blue and Brown Books ... 1977 Remarks on Colour



WE ARE OURSELVES THE ENTITIES TO BE ANALYZED

MARTIN HEIDEGGER (1889-1976)

IN CONTEXT

BRANCH

Ontology

APPROACH

Phenomenology

BEFORE

c.350 scr Diogenes of Sinope uses a plucked chicken to parody Plato's followers' claim that a human being is a "featherless biped."

1900–13 Edmund Husserl proposes his phenomenological theories and method in Logical Investigations and Ideas I

AFTER

1940s Jean-Paul Sartre publishes
Being and Nothingness, which looks
at the connection between "being"
and human freedom.

1960 Hans-Georg Gadamer's Truth and Method, inspired by Heidegger, explores the nature of human understanding.

t is said that in ancient Athens the followers of Plato gathered one day to ask themselves the following question: "What is a human being?" After a great deal of thought, they came up with the following answer "a human being is a featherless biped "Everybody seemed content with this definition until Diogenes the Cynic burst into the lecture hall with a

Philosophy has always asked deep questions about "Being"

We need to ask these questions by looking at the being for whom Being is an issue.

Us!

We ourselves are the entities to be analyzed.

hive plucked chicken, shouting, "Behold! I present you with a human being." After the commotion had died down, the philosophers reconvened and refined their definition. A human being, they said, is a featherless biped with broad nails.

This curious story from the history of early philosophy shows the kinds of difficulties philosophers have sometimes

been faced with when attempting to give abstract, general definitions of what it is to be human. Even without the intervention of Diegenes, it seems clear that describing ourselves as featherless bipeds does not really capture much of what it means to be human

An insider's perspective

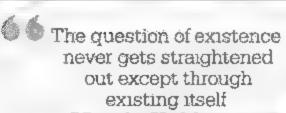
It is this question—how we might go about analyzing what it is to be humanthat concerned the philosopher Martin Heidegger When Heidegger came to answer the question, he did so in a way that was strikingly different from many of his predecessors. Instead of attempting an abstract definition that looks at human life from the outside, he attempts to provide a much more concrete analysis of 'being" from what could be called an insider's position. He says that since we exist in the thick of things—in the midst of life—if we want to understand what it is to be human. we have to do so by looking at human life from within this life

Heidegger was a student of Husserl, and he followed Husserl's method of phenomenology. This is a philosophical approach that looks at phenomenahow things appear—through examining our experience of them. For example, phenomenology would not look directly at the question "what is a human being?" but would instead look at the question "what is it like to be human?"

The human existence

For Heidegger, this constitutes the fundamental question of philosophy. He was most interested in the philosophical subject of ontology (from the Greek word ontos meaning "being") which looks at questions about being or existence. Examples of ontological questions might be "what does it mean to say that something exists?" and "what are the different kinds of things that exist?" Heidegger wanted use the question what is it like to be human?" as a wayof answering deeper questions about existence in general

In his book, *Being and Time*, Heidegger claims that when other philosophers have asked ontological questions, they have



Martin Heidegger

tended to use approaches that are too abstract and shallow if we want to know what it means to say that something exists, we need to start looking at the question from the perspective of those beings for whom being is an issue. We can assume that although cats, dogs, and toadstools are beings, they do not wonder about their being they do not fret over ontological questions, they do not ask "what does it mean to say that something exists?" But there is. Heidegger points out, one being that does wonder about these things and that is the human being. In saying that we are ourselves the entities to be analyzed Heidegger is saying that if we want to explore questions of being, we have to start with ourselves, by looking at what it means for us to exist

Being and time

When Heidegger asks about the meaning of being, he is not asking about abstract ideas but about something very direct and immediate. In the opening pages of his book, he says that the meaning of our being must be tied up with time, we are essentially temporal beings. When we are born, we find ourselves in the world as if we had been thrown here on a trajectory we have not chosen. We simply find that we have come to exist, in an engoing world that pre-existed us so that at our birth we are presented with a particular historical, material, and spiritual environment. We attempt to make sense of this world by engaging in various pastimes—for example, we might learn Latin or attempt to find true love, or decide to build ourselves a house. Through these time consuming projects we literally project ourselves toward different possible futures we define our existence. However, »



We try to make some of the world by engaging with projects and tasks that lend life a unity Being human, Heidegger says, means to be immersed in the day-to-day world

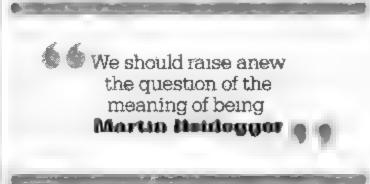
sometimes we become aware that there is an outermost limit to al. our projects a point at which everything we plan will come to an end, whether finished or unfinished. This point is the point of our death. Death, Heidegger says, is the outermost horizon of our being, everything we can do or see or think takes place within this horizon. We cannot see beyond it

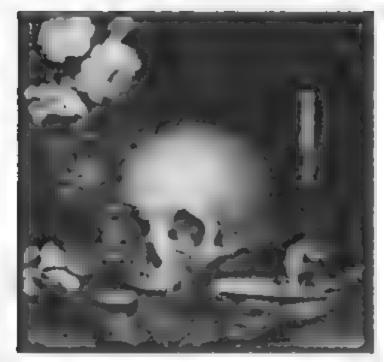
Heidegger's technical vocabulary is famously difficult to understand, but this is largely because he is attempting to explore complex philosophical questions in a concrete or non-abstract way, he wants to relate to our actual experience. To say that "the furthest horizon of our being is death" is to say something about what it

is like to live a human life, and it captures some idea of what we are in a way that many philosophical definitions 'featheriess biped" or "political animal", for example overlook

Living authortically

It is to Heidegger that we owe the philosophical distinction between authentic and inauthentic existence. Most of the time we are wrapped up in various ongoing projects, and forget.





All being is a "being-towards-death", but only humans recognize this. Our lives are temporal and it is only once we realize this that we can live a meaningful and authentic life.

about death. But in seeing our life purely in terms of the projects in which we are engaged, we miss a more fundamental dimension of our existence, and to that extent, Heidegger says, we are existing inauthentically. When we become aware of death as the ultimate limit of our possibilities, we start to reach a deeper understanding of what it means to exist

For example, when a good friend dies we may look at our own lives and realize that the various projects which absorb us from day to day feel meaningless, and that there is a deeper dimension to life that is missing. And so we may find ourselves changing our priorities and projecting ourselves toward different futures.

A deeper language

Heidegger's later philosophy continues to tackie questions of being but it turns away from his earlier, exacting approach to take a more poetic look at the same kinds of questions. Philosophy, he comes to suspect, simply cannot reflect this deeply on our own being. In order to ask questions about human existence, we must use the richer, deeper language of poetry, which engages us in a way that goes far beyond the mere exchange of information.

Heidegger was one of the 20th century's most influential philosophers. His early attempt to analyze what it means to be human, and how one might live an authentic life, inspired philosophers such as Sartre, Levinas, and Gadamer, and contributed to the birth of existentialism. His later, more poetic, thinking has also had a powerful influence on ecological philosophers who believe it offers a way of thinking about what it means to be a human being within a world under threat of environmental destruction.

Martin Heldegger



Heidegger is acknowledged to be one of the most important philosophers of the 20th century. He was bern in 1889 in Messkirch.

Germany, and had early aspirations to be a priest. but after coming across the writings of Husserl he took up philosophy instead. He quickly became well known as an inspirational lecturer. and was nicknamed "the magician of Messkurch." In the 1930s he became rector of Freiburg University and a member of the Nazı party. The extent and nature of his involvement with Nazism remains controversial as is the question of how far his philosophy is implicated in the ideologies of Nazism

Heidegger spent the last 30 years of his life traveling and writing, exchanging ideas with friends such as Hannah Arendt and the physicist Werner Heisenberg He died in Freiburg in 1976, aged 86.

Key works

1927 Being and Time
1936-46 Overcoming
Metaphyics
1955-56 The Principle
of Reason
1955-57 Identity and
Difference



THAT WHICH IS CANNOT BE TRUE

HERBERT MARCUSE (1898-1979)

IN CONTEXT

BRANCH
Political philosophy

APPROACH Frankfurt School

BEFORE

1821 Georg Hegel writes in his Philosophy of Right that what is actual is rational and what is rational is actual

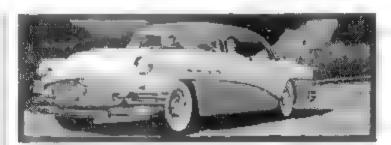
1867 Karl Marx publishes the first volume of Das Kapital, setting out his view of the "laws of motion" within capitalist societies, and asserting that capitalism is guilty of exploiting humans.

1940s Martin Heidegger begins to explore the problems of technology.

AFTER

2000 Slavoj Žižek explores the relationship between technology. capitalist society, and totalitarianism.

t first glance, nothing seems to be more irrational than Marcuse's claim that "that which is" cannot be true, which appears in his 1941 book. Reason and Revolution. If that which is cannot be true, the reader is tempted to ask, then what is? But Marcuse's idea is partly an attempt to overturn the claim made by the German philosopher Hegel that what is rational is actual, and also that what is actual is rational.



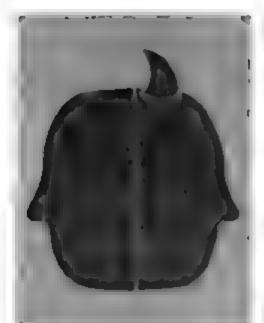
Fast cars are the kind of consumables that Marcuse accuses us of using to recognize ourselves, he says we find our sou!" in these items, becoming mere extensions of the things we create

Marcuse believes this is a dangerous idea because it leads us to think that what is actually the case—such as our existing political system—is necessarily rational. He reminds us that those things we take as reasonable may be far more unreasonable than we like to admit. He also wants to shake us up into realizing the irrational nature of many of the things that we take for granted.

Subversive reason

In particular Marcuse is deeply uneasy with capitalist societies and with what he calls their "terrifying harmony of freedom and oppression, productivity and destruction, growth and regression." We assume that the societies we live in are based upon reason and justice, but when we look more closely, we may find that they are neither as just not as reasonable as we believe

Marcuse is not discounting reason, but trying to point out that reason is subversive, and that we can use it to call into question the society in which we live. The aim of philosophy, for Marcuse, is a "rationalist theory of society."



THE BANALITY OF EVIL

HANNAH ARENDT (1906-1975)

IN CONTEXT

BRAN ST

. Ethice - ...

APPROACH Existentialism

BEFORE

c.350 St Augustine of Hippo writes that evil is not a force but comes from a lack of goodness.

1200s Thomas Aquinas writes

Disputed questions on evil, exploring
the idea of evil as a lack of something,
rather than a thing in itself

AFTER

Arendt witnessed the trial of Adolph Eichmann, one of the architects of the Holocaust. In her book Eichmann in Jerusalem, Arendt writes of the apparent "everydayness" of Eichmann. The figure before her in the dock did not resemble the kind of monster we might imagine. In fact, he would not have looked out of place in a café or in the street.



committed
atrocities not
through a hatred
of the Jewish
community
Arendt suggests
but because he
anthinkingly
followed orders,
disengaging
from their
effects

A failure of judgement

After witnessing the trial, Arendt came to the conclusion that evil does not come from malevolence or a delight in doing wrong. Instead, she suggests the reasons people act in such ways is that they fall victim to failures of thinking and judgement. Oppressive political systems are able to take advantage of our tendencies toward such failures and can make acts that we might usually consider to be "unthinkable" seem normal.

The idea that evil is banal does not strip evil acts of their horize. Instead, refusing to see people who commit terrible acts as "monsters", brings these acts closer to our everyday lives, challenging us to consider how evil may be something of which we are all capable. We should guard against the failures of our political regimes, says Arendt, and the possible failures in our own thinking and judgement.



IN SO FAR AS A SCIENTIFIC STATEMENT SPEAKS ABOUT REALITY, IT MUST BE FALSIFIABLE

KARL POPPER (1902-1994)

IN CONTEXT

BRANCH

Philosophy of science

APPROACH

Analytic philosophy

BEFORE

4th century BCE Anstotle stresses the importance of observation and measurement to understanding the world

1620 Francis Bacon sets out the inductive methods of science in Novum Organim.

1748 David Hume's Enquiry concerning Human Understanding raises the problem of induction.

AFTER.

1962 Thomas Kuhn criticizes
Popper in The Structure of
Scientific Revolutions.

1978 Paul Feyerabend, in Against Method, questions the very idea of scientific method

e often think that science works by "proving" truths about the world. We might imagine that a good scientific theory is one that we can prove conclusively to be true. The philosopher Karl Popper, however, insists that this is not the case, instead, he says that what makes a theory scientific is that

Scientific understanding works by **induction**.

This means working from particular observations (such as "every swan I see is white")

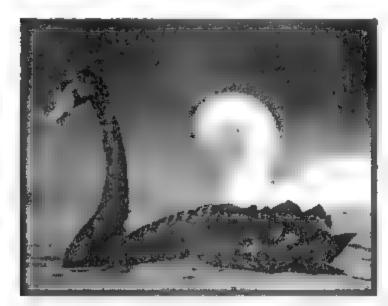
and moving to general principles (such as "all swans are white")

But these principles can't be proved, **only disproved** (such as by the sighting of a black swan)

In so far as a scientific statement speaks about reality, it must be falsifiable.

it is capable of being falsified, or being shown to be wrong by experience

Popper is interested in the method by which science finds out about the world. Science depends on experiment and experience, and if we want to do science well, we need to pay close attention to what philosopher David



Black swans were first encountered by Europeans in the 17th century. This faisified the idea that all swans are white which at the time was held to be universally true.

Hume called the "regularities" of nature—
the fact that events unfold in the world in
particular patterns and sequences that
can be systematically explored. Science,
in other words, is empirical or based
on experience, and to understand how it
works we need to understand how
experience in general leads to knowledge.

Consider the following statement: "If you drop a tennis ball from a second floor window, it will fall to the ground." Leaving aside any chance events (such as the ball being snatched away by a passing eagle), we can be fairly sure that this claim is a reasonable one. It would be a strange person who said, "Hold on, are you sure it will fall to the ground?" But how do we know that this is what will happen when we drop the tennis ball? What kind of knowledge is this?

The short answer is that we know it will fall because that is what it always does. Leaving aside chance events, no-one has ever found that a tennis ball hovers or rises upward when it is released. We know it falls to the ground because experience has shown us that this will happen. And not only can we be sure that the ball will fall to the ground, we can also be sure about how it will fall to the ground. For example, if we know the force of gravity, and how high the window is above the ground, we can calculate the speed at which the ball will fall. Nothing about the event is even remotely mysterious.

Nevertheless, the question remains can we be certain that the next time we drop the ball it will fall to the ground? No matter how often we conduct the experiment, and no matter how confident we become about its outcome, we can never prove that the result will be the same in the future

Inductive reasoning

This inability to speak with any certainty about the future is called the problem of induction, and it was first recognized by Hume in the 18th century. So what is inductive reasoning?

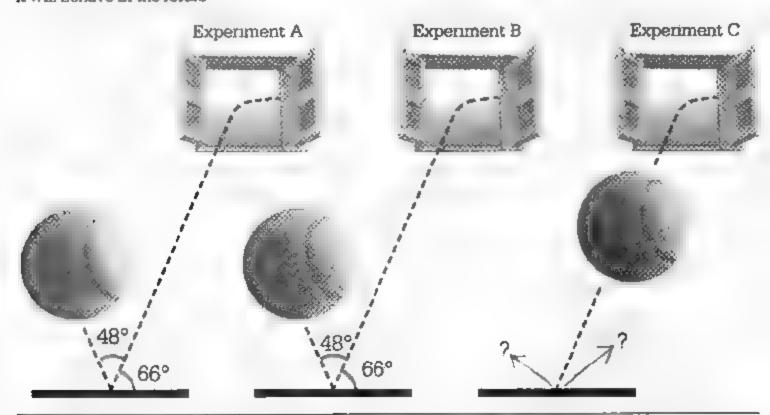
Induction is the process of moving from a set of observed facts about the world to more general conclusions about the world. We expect that if we drop the ball it will fall to the ground because, at least according to Hume, we are generalizing from innumerable experiences of similar occasions on which we have found things like balls to fall to the ground when we release them

Deductive reasoning

Another form of reasoning which philosophers contrast with induction is deductive reasoning. While induction moves from the particular case to the general, deduction moves from the general case to the particular. For instance, a piece of deductive reasoning might start from two premises, such as: "If it is an apple then it is a fruit (since all apples are fruit)" and "This is an apple." Given the nature of these premises, the statement "This is an apple," leads inescapably to the conclusion "It is a fruit."

Philosophers like to simplify deductive arguments by writing them out in notation. So the general form of the argument above would be "If P then Q, since P, therefore Q" In our example "P" stands for "It is an apple", and "Q" stands for "It is a fruit " Given the starting points "If P then Q" and "P" then the conclusion "Q" is necessary or unavoidably true. Another example would be "If it is raining the cat will meew (since all cats meew in the rain) It is raining therefore the cat will meew." »

An example of the problem of induction is that no matter how reliably a tennis ball behaves in the present, we can never know for certain how it will behave in the future



All arguments of this kind are considered by philosophers to be valid arguments, because their conclusions follow inevitably from their premises. However, the fact that an argument is valid does not mean that its conclusions are true For example, the argument "If it is a cat, then it is banana-flavored, this is a cat, therefore it is banana-flavored" is valid. because it follows a valid form. But most people would agree that the conclusion is false And a closer look shows that there is a problem, from an empirical perspective, with the premise "If it is a cat, then it is banana-flavored", because cats, in our world at least, are not banana-flavored In other words, because the premise is untrue, even though the argument itself is valid, the conclusion is also untrue Other worlds can be imagined in which cats are in fact banana flavored, and for

Every solution to a problem creates new unsolved problems.

Kari Popper



this reason the statement that cats are not banana-flavored is said to be contingently true, rather than logically or necessarily true, which would demand that it be true in all possible worlds. Nevertheless, arguments that are valid and have true premises are called "sound" arguments. The banana-flavored cat argument, as we have seen, is valid but not sound—whereas the argument about apples and fruit is both valid and sound

Falsifiability

Deductive arguments could be said to be like computer programs—the conclusions they reach are only as good as the data that is fed into them. Deductive reasoning has an important role to play in the sciences, but on its own, it cannot say anything about the world. It can only say "If this is the case, then that is the case." And if we want to use such arguments in the sciences, we still have to rely on induction for our premises, and so science is lumbered with the problem of induction.

For this reason, according to Popper, we cannot prove our theories to be true. Moreover, what makes a theory scientific is not that it can be proved at all, but that it can be tested against reality and shown

 Science may be described as the art of systematic over-simplification

Karl Popper



to be potentially false. In other words, a falsifiable theory is not a theory that is false, but one that can only be shown to be false by observation.

Theories that are untestable (for example, that we each have an invisible spirit guide, or that God created the universe) are not part of the natural sciences. This does not mean that they are worthless, only that they are not the kinds of theories that the sciences deal with

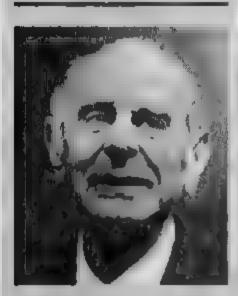
The idea of falsifiability does not mean we are unjustified in having a belief in theories that cannot be falsified. Beliefs that stand up to repeated testing, and that resist our attempts at falsification, can be taken to be reliable. But even the best theories are always open to the possibility that a new result will show them to be false.



Experiments can show that certain phenomena reliably follow others in nature But Popper claims that no experiment can ever verify a theory, or even show that it is probable

Popper's work has not been without its critics. Some scientists claim that he presents an idealized view of how they go about their work, and that science is practiced very differently from how Popper suggests. Nevertheless, his idea of falsifiability is still used in distinguishing between scientific and non-scientific claims, and Popper remains perhaps the most important philosopher of science of the 20th century.

Karl Popper



Karl Popper was born in Vienna, Austria, in 1902. He studied philosophy at the University of Vienna,

after which he spent six years as a schoolteacher. It was during this time that he published The Logic of Scientific Discovery, which established him as one of the foremost philosophers of science. In 1937, he emigrated to New Zealand, where he lived until the end of World War II, and where he wrote his study of totalitarianism. The Open Society and Its Enemies. In 1946, hemoved to England to teach, first at the London School of Economics, then at the University of London.

He was knighted in 1965, and remained in England for the rest of his life. Although he retired in 1969, he continued to write and publish until his death in 1994.

Key works

1934 The Logic of
Scientific Discovery
1945 The Open Society
and Its Enemies
1957 The Poverty
of Historicism
1963 Conjectures
and Refutations:
The Growth of
Scientific Knowledge



INTELLIGENCE IS A MORAL CATEGORY

THEODOR ADORNO (1903-1969)

IN CONTEXT

BRANCH Ethics

APPROACH
Frankfurt School

BEFORE

1st century or Saint Paul writes about being a "fool for Christ."

500-1450 The idea of the "holy fool", who represents an alternative view of the world becomes popular throughout Medieval Europe

20th century The global rise of differing forms of mass-media communication raises new ethical questions

AFTER

1994 Portuguese neuroscientist
Antonio Damasio publishes
Descartes' Error Emotion, Reason,
and the Human Brain.

21st century S.avoj Žižek explores the political, social, and ethical dimensions of popular culture.

he idea of the holy fool has a long tradition in the West, dating all the way back to Saint Paul's letter to the Counthians in which he asks his followers to be "fools for Christ's sake."

Throughout the Middle Ages this idea was developed into the popular cultural

Intelligence

Emotion

Both are needed for me to make judgements about what is **right and wrong**

So to act morally I need to be able to use my intelligence as well as my emotions

Intelligence is a moral category.

figure of the saint or sage who was foolish or lacked intelligence, but who was morally good or pure

In his book Minima Moralia, the German philosopher Theodor Adorno calls into question this long tradition. He is suspicious of attempts to (as he puts it) "absolve and beatify the blockhead", and wants to make the case that goodness involves our entire being, both our feeling and our understanding

The problem with the idea of the holy fool, Adomo says, is that it divides us into different parts, and in doing so makes us incapable of acting judiciously at all. In reality, judgement is measured by the extent to which we manage to make feeling and



Lighthearted
television is
inherently dangerous,
says Adorno, because
it distorts the world
and imbues us with
stereotypes and
biases that we begin
to take on as our own

understanding cohere Adorno's view implies that evil acts are not just failures of feeling, but also failures of intelligence and understanding.

Adorno was a member of the Frankfurt School, a group of philosophers who were interested in the development of capitalism. He condemned forms of mass communication such as television and radio, claiming that these have led to the erosion of both intelligence and feeling, and to a decline in the ability to make moral choices and judgements. If we choose to switch off our brains by watching blockbuster movies (insofar as we can choose at all, given the prevailing cultural conditions in which we live) for Adorno this is a moral choice. Popular culture, he believes, not only makes us stupid, it also makes us unable to act morally

Essential emotions

Adorno believes that the opposite error to that of imagining that there might be such a thing as a holy fool is imagining that we can judge on intelligence alone without emotion. This might happen in a court of law, judges have been known to instruct the jury to put all emotion to one side, so that they can come to a cool and measured decision. But in Adorno's view, we can no more make wise judgements by abandoning emotion than we can by abandoning intelligence.

When the last trace of emotion has been driven out of our thinking. Adorno writes, we are left with nothing to think about, and the idea that intelligence might benefit "from the decay of the emotions" is simply mistaken. For this reason Adorno believes that the sciences, which are a form of knowledge that do not make reference to our emotions, have, like popular culture, had a dehumanizing effect upon us

Unexpectedly, it may in fact be the sciences that will ultimately demonstrate the wisdom of Adomo's central concerns about the severing of intelligence and feeling. Since the 1990s, scientists such as Antonio Damasio have studied emotions and the brain providing increasing evidence of the many mechanisms by which emotions guide decision-making. So if we are to judge wisely or even to judge at all, we must employ both emotion and intelligence.



Theodor Adorno

Born in 1903 in Frankfurt. Theodor Adorno's two passions from an early age were philosophy and music; his mother and aunt were both accomplished musicians At university Adorno studied musicology and philosophy, graduating in 1924. He had embitions to be a composer, but setbacks in his musical career led him increasingly toward philosophy. One area in which Adorno's interests converged was in his criticism of the industry surrounding popular culture, demonstrated in his notorious easay On Jazz, published in 1936.

In 1938, during the rise of Nazism in Germany, Adorno emigrated to New York, and then moved to Los Angeles, where he taught at the University of California. He returned to Germany after the end of World War II, and took up a professorship at Frankfurt. Adorno died at the age of 66 while on holiday in Switzerland in 1969.

Key works

1949 Philosophy of New Music 1951 Minima Moralia 1966 Negative Dialectics 1970 Aesthetic Theory



EXISTENCE PRECEDES ESSENCE

JEAN-PAUL SARTRE (1905–1980)

IN CONTEXT

BRANCH Ethics

APPROACH

Existentialism

BEFORE

4th century scr Aristotle asks the question "How should we live?"

1840s Søren Kierkegaard writes Either/Or, exploring the role played by choice in shaping our lives.

1920s Martin Heidegger says that what is important is our relationship with our own existence

AFTER

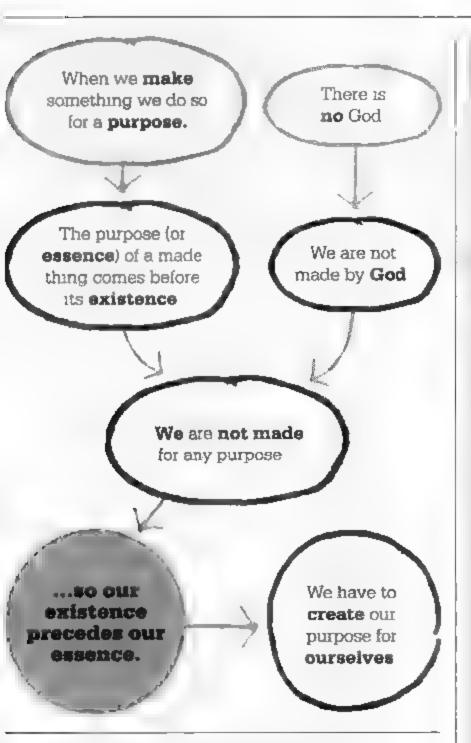
1949 Sartre's friend and companion;
Simone de Beauvoir, publishes
The Second Sex, which applies
Sartre's ideas to the question of
the relationship between men
and women.

of what it is to be human and what makes us so distinct from all other types of being has been one of the main preoccupations of philosophers. Their approach to the question assumes that there is such a thing as human nature, or an essence of what it is to be human. It also tends to assume that this human nature is fixed across time.

and space In other words, it assumes that there is a universal essence of what it is to be human, and that this essence can be found in every single human that has ever existed, or will ever exist. According to this view, all human beings, regardless of their circumstances, possess the same fundamental qualities and are guided by the same basic values. For Saitre, however, thinking about human nature in this way risks missing what is most important about human beings, and that is our freedom.

To clarify what he means by this, Sartre gives the following illustration. He asks us to imagine a paper-knife—the kind of knife that might be used to open an envelope. This knife has been made by a craftsman who has had the idea of creating such a tool, and who had a clear understanding of what is required of a paper-knife. It needs to be sharp enough to cut through paper, but not so sharp as to be dangerous. It needs to be easy to wield, made of an appropriate substance metal, bamboo, or wood, perhaps, but not butter, wax, or feathers—and fashioned to function efficiently Sartre says that it is inconceivable for a paper-knife to exist without its maker knowing what it is going to be used for Therefore the essence of a paper-knife-or all of the things that make it a paper-knife and not a steak knife or a paper airplane—comes before the existence of any particular paper-knife.

Humans, of course, are not paperknives. For Sartre, there is no preordained plan that makes us the kind of beings that



we are We are not made for any particular purpose We exist, but not because of our purpose or essence like a paper-knife does, our existence precedes our essence

Defining ourselves

This is where we begin to see the connection between Sartre's claim that "existence precedes essence" and his atheism. Sartre points out that religious approaches to the question of human nature often work by means of an analogy with human craftsmanship—that human nature in the mind of God is analogous to the nature of the paper-knife in the mind of the craftsman who makes it. Even many non-religious theories of human nature, Sartre claims, still have their roots in religious ways of thinking because they continue to insist that essence comes before existence, or that we are made for a specific purpose. In claiming that existence comes before essence, Sartre is setting out a position that he we



Jean-Paul Sartre

Born in Paris, Sartre was just 15 months old when his father died. Brought up by his mother and grandfather, he proved a gifted student, and gained entry to the prestigious École Normale Supérieure. There he met his lifelong companion and fellow philosopher Simone de Beauvoir. After graduation, he worked as a teacher and was appointed Professor of Philosophy at the University of Le Havre in 1931.

During World War II, Sartre was drafted into the army and briefly imprisoned. After his release in 1941, he joined the resistance movement.

After 1945, Sartre's writing became increasingly political and he founded the literary and political journal Modern Times. He was offered, but declined, the Nobel Prize for Literature in 1964. Such was his influence and popularity that more than 50,000 people attended his funeral in 1980.

Key works

1938 Nausea

1943 Being and Nothingness

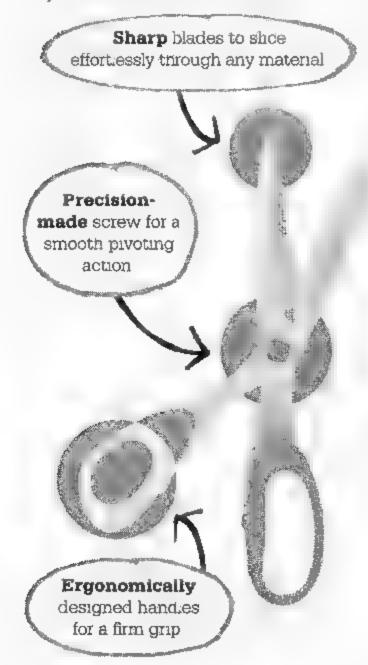
1946 Existentialism and

Humanism

1960 Critique of Dialectical Reason believes is more consistent with his atheism. There is no universal, fixed human nature, he declares, because no God exists who could ordain such a nature

Here Sartre is relying on a very specific definition of human nature, identifying the nature of something with its purpose. He is rejecting the concept of what philosophers call teleology in human nature—that it is something that we can think about in terms of the purpose of human existence. Nevertheless, there is a sense in which Sartre is offering a theory of human nature, by claiming that we are the kinds of beings who are compelled to assign a purpose to our lives. With no divine power to prescribe that purpose, we must define ourselves.

The use or purpose of a tool such as a pair of scissors, dictates its form. Humans, according to Sartre, have no specific purpose, so are free to shape themselves.



First of all man exists
turns up appears on the
scene, and only afterwards
defines himself

Jean-Paul Sartre



Defining ourselves, however, is not just a matter of being able to say what we are as human beings. Instead, it is a matter of shaping ourselves into whatever kind of being we choose to become. This is what makes us, at root, different from all the other kinds of being in the world—we can become whatever we choose to make of ourselves. A rock is simply a rock, a cauliflower is simply a cauliflower, and a mouse is simply a mouse. But human beings possess the ability to actively shape themselves.

Because Sartre's philosophy releases us from the constraint of a human nature that is preordained, it is also one of freedom. We are free to choose how to shape ourselves, although we do have to accept some limitations. No amount of willing myself to grow wings, for example, will ever cause that to happen. But even within the range of realistic choices we have we often find that we are constrained and simply make decisions based upon habit, or because of the way in which we have become accustomed to see ourselves.

Sartre wants us to break free of habitual ways of thinking, telling us to face up to the implications of living in a world in which nothing is preordained. To avoid falling into unconscious patterns of behavior, he believes we must continually face up to choices about how to act

Responsible freedom

By making choices, we are also creating a template for how we think a human life ought to be. If I decide to become a philosopher then I am not just deciding for myself. I am implicitly saying that being a philosopher is a worthwhile activity. This means that freedom is the greatest responsibility of all. We are not just



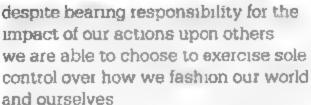
Sartre's idea that we are free to shape our own lives influenced the students that took to the streets of Paris in May 1968 to protest against the draconian powers of the university authorities

responsible for the impact that our choices have upon ourselves, but also for their impact on the whole of mankind. And, with no external principles or rules to justify our actions, we have no excuses to hide behind for the choices that we make For this reason. Sartre declares that we are "condemned to be free."

Sartre's philosophy of linking freedom with responsibility has been labelled as pessimistic but he refutes that charge Indeed, he states that it is the most optimistic philosophy possible because

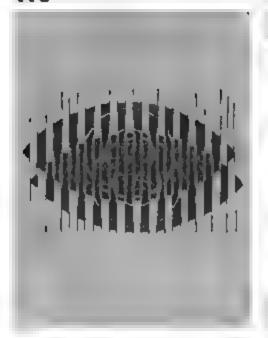
As far as men go, it is not what they are that interests me, but what they can become.

Jean-Paul Sartre 🌘



Sartre's ideas were particularly influential on the writings of his companion and fellow philosopher Simone de Beauvoir, but they also had a marked impact on French cultural and daily life Young people especially were thrilled by his call to use their freedom to fashion their existence. He inspired them to challenge the traditionalist, authoritarian attitudes that prevailed in France in the 1950s and 1960s. Sartre is cited as a key influence on the streets protests in Paris in May 1968, which helped to bring down the conservative government and herald a more liberal climate throughout France

Engagement with political issues was an important part of Sartre's life. His constantly changing affiliations, as well as his perpetual movement between politics, philosophy, and literature, are themselves perhaps testament to a life lived in the light of the idea that existence precedes essence.



IN ORDER TO SEE THE WORLD, WE MUST BREAK WITH OUR FAMILIAR ACCEPTANCE OF IT

MAURICE MERLEAU-PONTY (1908–1961)

IN CONTEXT

BRANCH

Epistemology

APPROACH

Phenomenology

BEFÖRE

4th century act Amstotle claims that philosophy begins with a sense of wonder

1641 René Descartes' Meditations on First Philosophy establishes a form of mind -body dualism that Merleau-Ponty will reject.

Early 1900s Edmund Husserl founds phenomenology as a philosophical school

1927 Martin Heidegger writes
Being and Time, a major influence
on Merleau-Ponty

AFTER

1979 Hubert Dreyfus draws on the works of Herdegger, Wittgenstein, and Merleau Ponty to explore philosophical problems raised by artificial intelligence and robotics.

he idea that philosophy begins with our ability to wonder at the world goes back as far as ancient Greece Usually we take our everyday lives for granted, but Aristotle claimed that if we

Our experience is filled with puzzles and contradictions

Our everyday assumptions prevent as from seeing these puzzles and contradictions

We must

put our everyday

assumptions

to one side.

, ,relearn to look at our experience

In order to see the world, we must break with our familiar acceptance of it.

want to understand the world more deeply, we have to put aside our familiar acceptance of things. And nowhere, perhaps, is this harder to do than in the realm of our experience. After all, what could be more reliable than the facts of direct perception?

French philosopher Merleau-Ponty was interested in looking more closely at our experience of the world, and in questioning our everyday assumptions. This puts him in the tradition known as phenomenology, an approach to philosophy pioneered by Edmund Husserl at the beginning of the 20th century Husserl wanted to explore first-person experience in a systematic way while putting all assumptions about it to one side

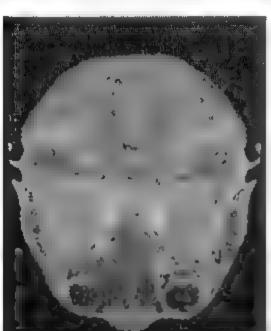
The body-subject

Merleau-Ponty takes up Husser, s approach, but with one important difference. He is concerned that Husserl ignores what is most important about our experience the fact that it consists not just of mental experience. but also of bodily experience. In his most important book, The Phenomenology of Perception, Merleau Ponty explores this idea and comes to the conclusion that the mind and body are not separate entities—a thought that contradicts a long philosophical tradition championed by Descartes For Merleau-Ponty, we have to see that thought and perception are embodied and that the world, consciousness, and the body are al. part of a single system. And his alternative to the disembodied mind proposed by Descartes is what he calls the body-subject. In other words, Merleau Ponty rejects the dualist's view that the wond is made of two separate entities, called mind and matter

Cognitive science

Because he was interested in seeing the world a new, Merleau-Ponty took an interest in cases of abnormal experience. For example, he believed that the phantom limb phenomenon (in which an amuptee "feels" his missing limb) shows that the body cannot simply be a machine. If it were, the body would no longer acknowledge the missing part—but it still exists for the subject because the limb has always been bound up with the subject s will In other words, the body is never "just" a body—it is always a "lived" body

Merleau-Ponty's focus on the role of the body in experience, and his insights into the nature of the mind as fundamentally embodied, have led to a revival of interest in his work among cognitive scientists. Many recent developments in cognitive science seem to bear out his idea that, once we break



with our familiar acceptance of the world, experience is very strange indeed.

MRI scans of the brain provide doctors with life-saving information. However in Merlean Ponty's view, no amount of physical information can give us a complete account of experience.



Maurice Merleau-Ponty

Maurice Merleau-Ponty was born in Rochefort-sur-Mer, France, in 1908. He attended the École Normale Supérieure along with Jean-Paul Sartre and Simone de Beauvoir, and graduated in philosophy in 1930 He worked as a teacher at various schools, until joining the infantry during World War II His major work, The Phenomenology of Perception, was published in 1945, after which he taught philosophy at the University of Lyon

Merleau-Ponty's interests extended beyond philosophy to include subjects such as education and child psychology. He was also a regular contributor to the journal Les Temps modernes. In 1952, Merleau-Ponty became the youngest-ever Chair of Philosophy at the College de France, and remained in the post until his death in 1961, at the age of only 53.

Key works

1942 The Structure
of Behaviour
1945 The Phenomenology
of Perception
1964 The Visible and
the Invisible



MAN IS DEFINED AS A HUMAN BEING AND WOMAN AS A FEMALE

SIMONE DE BEAUVOIR (1908-1986)

IN CONTEKT

BRANCH

Ethics

APPROACH

Feminism

BEFORE

c.350 BCE Aristotle says, "The female is a female by virtue of a certain lack of qualities."

1792 Mary Wollstonecraft publishes

A Vindication of the Rights of Woman,
illustrating the equality of the sexes.

1920s Martin Heidegger sets out a "philosophy of existence," prefiguring existentialism.

1940s Jean-Paul Sertre says "existence precedes essence."

AFTER

1970s Luce Ingaray explores the philosophical implications of sexual difference.

From 1980 Julia Kristeva breaks down the notions of "male" and "female" as characterized by de Beauvoir.

Beauvoir writes in her book The
Second Sex that throughout history,
the standard measure of what we take to be
human—both in philosophy and in society

Some philosophers, such as Aristotle, have been explicit in equating full humanity with maleness. Others have not said as much but have nevertheless taken maleness as the standard against which humanity is to be judged. It is for this reason that de Beauvoir says that the Self (or "I") of philosophical knowledge is by default male, and his binary pair—the female—is therefore something else, which she calls the Other. The Self is active and knowing, whereas the Other is all that the Self rejects passivity, voicelessness, and powerlessness.

De Beauvou is also concerned with the way that women are judged to be equal only insofar as they are like men. Even those who

Most of those who have written about human nature have been men

Men have taken maleness as the standard against which they judge human nature.

Men have **defined women** by how they differ from this standard

Man is defined as a human being and woman as a female.

have written on behalf of the equality of women, she says, have done so by arguing that equality means that women can be and do the same as men. She claims that this idea is mistaken, because it ignores the fact. that women and men are different. De Beauvoir s philosophical background was in phenomenology the study of how things appear to our experience. This view maintains that each of us constructs the world from within the frame of our own consciousness; we constitute things and meanings from the stream of our experiences Consequently de Beauvoir maintains that the relationship that we have to our own bodies, to others, and to the world as well as to philosophy itself is strongly influenced by whether we are male or female

Existential feminism

Simone de Beauvoir was also an existentialist, believing that we are born without purpose and must carve out an authentic existence for ourselves. choosing what to become. In applying this idea to the notion of "woman", she asks us to separate the biological entity (the bodily form which females are born into) from femininity which is a social construct Since any construct is open to change and interpretion. this means that there are many ways of "being a woman", there is room for existential choice. In the introduction to The Second Sex de Beauvoir notes society's awareness of this fluidity. "We are exhorted to be women, remain women, become women. It would appear then, that every female human being is not necessarily a woman. She later states the position. explicitly: "One is not born but becomes a woman."

De Beauvoir says that women must free themselves both from the idea that they must be like men, and from the passivity that society has induced in them. Living a



truly authentic existence carnes more risk than accepting a role handed down by society, but it is the only path to equality and freedom .

The many myths

of woman as mother wife, virgin, symbol of nature, and so on trap women, claimed de Beauvou, into impossible ideals, while denying their individual selves and situations



Simone de Beauvoir

The existentialist philosopher Simone de Beauvou was born in Paris in 1908. She studied philosophy at the Sorbonne University. and it was here that she met Jean Paul Sartre, with whom she began a lifelong relationship. Both a philosopher and an awardwinning novelist, she often explored philosophical themes within fictional works such as She Came to Stay and The Mandarins. Her most famous work, The Second Sex, brought an existentialist approach to feminist ideas. Despite initially being vilifled by the political right and left, and being placed on the Vatican's Index of Forbidden Books, it became one of the most important feminist works of the 20th century. De Beauvoir was a prolific writer, producing travel books, memoirs, a fourvolume autobiography, and political essays over the course of her life. She died at the age of 78, and was buried in Montparnasse cemetery.

Key works

1944 Pyrrhus and Cineas 1947 The Ethics of Ambiguity 1949 The Second Sex 1954 The Mandarins



THE FUNDAMENTAL SENSE OF FREEDOM IS FREEDOM FROM CHAINS

ISAIAH BERLIN (1909-1997)

IN CONTEXT

BRANCH Ethics

APPROACH

Analytic philosophy

BEFORE

1651 In his book *Leviethan*, Thomas Hobbes considers the relationship between freedom and state power.

1844 Søren Kierkegaard argues that out freedom to make moral decisions is a chief cause of unhappiness.

1859 in his book On Liberty, John Stuart Mill distinguishes between freedom from coercion and freedom to act

1941 Psychoanalyst Erich Fromm explores positive and negative liberty in his book *The Fear of Freedom*

AFTER

Present day The development of new surveillance technology raises fresh questions about the nature of freedom

hat does it mean to be free? This is the question explored by the British philosopher Isaiah Berlin in his famous essay Two Concepts of Liberty, written in 1958. Here he makes a distinction between what he calls "positive" and "negative" freedom. Although he is not

Freedom is both positive and negative

Positive we are free to control our own destiny and choose our own goals Negative we are free from external obstacles and domination or "chains"

But our individual goals sometimes conflict or lead to the domination of others

When our own positive freedom leads to a decrease in others' negative freedom, it becomes oppression

The fundamental sense of reedom is freedom from chains

the first to draw this distinction, he does so with great originality, and uses it to expose apparent inconsistencies in our everyday notion of freedom

For Berlin, "negative" freedom is what he calls our "fundamental sense" of freedom. This kind of freedom is freedom from external obstacles. I am free because I am not chained to a rock, because I am not in prison, and so



Soviet propaganda often depicted workers liberated from capitalism. From a capitalist view however, such images showed a triumph of negative freedom over positive freedom.

on This is freedom from something else. But Berlin points out that when we talk about freedom, we usually mean something more subtle than this Freedom is also a matter of self-

determination, of being a person with hopes, and intentions, and purposes that are one sown. This "positive" freedom is about being in control of one's own destiny After al., I am not free just because all the doors of my house are unlocked. And this positive freedom is not exclusively personal, because selfdetermination can also be desired at the level of the group or of the state. For Berlin, the problem is that these two forms of freedom are often in conflict. Think, for example, of the freedom that comes from the discipline of learning how to play the tuba. As a beginner, I can do little more than struggle with my own inability to play—but eventually I can play with a kind of liberated gusto. Or think of the fact that people frequently exercise their "positive" freedom by voting for a particular government, knowing that their "negative" freedom will be restricted when that government comes to power

The goals of life

Berlin points to another problem. Who is to say what a suitable goal of "positive" freedom should be? Authoritarian or totalitarian regimes often have an inflexible view of the purpose of human life, and so restrict "negative" freedoms to maximize their idea of human happiness. Indeed, political oppression frequently arises from an abstract idea of what the good life is, followed by state intervention to make that idea a reality.

Berlin's response to this is twofold. First, it is important to recognize that the various freedoms we may desire will always be in conflict, for there is no such thing as "the goal of life"—only the goals of particular individuals. This fact, he claims, is obscured by philosophers who look for a universal basis for morality, but confuse "right action" with the purpose of life itself. Second, we need to keep alive the fundamental sense of freedom as an absence of "bullying and domination", so that we do not find our ideals turning into chains for ourselves and for others.



Isaiah Berlin

Isaiah Berlin was born in Riga, Latvia, in 1909, He spent the first part of his life in Russia, firstly under the Russian empire, and then under the rule of the new Communist state. Due to rising anti-Semitism. however, and problems with the Soviet régime, his family emigrated to Britain in 1921. Berlin was an outstanding student at Oxford University, where he remained as a lecturer. He was a philosopher with broad interests, ranging from art and literature to politics. His essay Two Concepts of Liberty was delivered in 1958 at Oxford University, and it is often considered one of the classics of 20th-century political theory. He is celebrated for being one of the foremost scholars of liberalism.

Key works

1953 The Hedgehog and the
Fox: An Essay on Tolstoy's
View of History
1958 Two Concepts of Liberty
1990 The Crooked Timber of
Humanity: Chapters in the
History of Ideas
2000 The Power of Ideas
2006 Political Ideas in the
Romantic Age



LANGUAGE IS A SKIN

ROLAND BARTHES (1915-1980)

IN CONTEXT

BRANCH

Philosophy of language

APPROACH . *

Semiotics

BEFORE

380 BCE Plato's Symposium
us the first sustained philosophical
discussion of love in the West

4th century cz St Augustine of Hippo writes extensively on the nature of love

1916 Ferdinand de Saussure's Course in General Linguistics establishes modern semiotics and the study of language as a series of sign

1966 French psychoanalyst Jacques Lacan looks at the relationship between Alcibiades, Socrates, and Agathon in his *Écrits*

AFTER

1990s Juha Kristeva explores the relationship between love, semiotics and psychoanalysis

he strangest, but most popular book written by philosopher and literary critic Roland Barthes is A Lover's Discourse. As the French title, Fragments d'un discours amoureux, suggests, this is a book told in fragments and snapshots somewhat like the essay One-Way Street

The lover's language "trembles with desire"

Ŀ

A., philosophy about love is addressed toward a particular object of desire

When I write or speak about love, my language **rubs against**" the secret object of my desire

Language affects the other like skin on skin contact

Language is a skin.

by the German philosopher Walter Benjamin A Lover's Discourse is not so much a book of philosophy as it is a love story but it is a love story without any real story. There are no characters, and there is nothing in the way of a plot. There are only the reflections of a lover in what Barthes calls "extreme solitude."

At the very beginning of the book. Barthes makes clear that a plot is not possible, because the solitary thoughts of a lover come in outbursts that are often contradictory and lack any clear order. As a lover, Barthes suggests, I might even find myself plotting against myself. The lover is

somebody who might be affectionately described as having "lost the plot" So instead of using a plot, or narrative, Barthes arranges his book like an extraordinary encyclopaedia of contradictory and disordered outbursts, any of which might serve as the point the reader might suddenly exclaim, "That's so true! I recognize that scene."

The language of love

It is in this context that Barthes suggests
"language is a skin." Language, at least
the language of the lover, is not something
that simply talks about the world in a neutral
fashion, but it is something that, as Barthes
says, "trembles with desire. Barthes writes
of how "I rub my language against the other
It is as if I had words instead of fingers,
or fingers at the tip of my words." Even if
I write cool, detached philosophy about
love, Barthes claims, there is buried in my
philosophical coolness a secret address to
a particular person, an object of my desire
even if this somebody is "a phantom or a
creature still to come"

Barthes gives an example of this secret address (although not, it should be said, in the context of a particularly detached philosophical discussion) from Plato's dialogue, The Symposium. This is an account of a discussion on the subject of love that



The lover's language is like a skin says
Barthes which inhabits the lover. Its words
are able to move the beloved—and only the
beloved—in an almost physical or tactile way

takes place in the house of the poet
Agathon. A statesman called Alcibiades
turns up to the discussion both late and
drunk, and sits down on a couch with
Agathon and the philosopher Socrates. The
drunken speech he gives is full of praise for
Socrates, but it is Agathon that Alcibiades
desires, it is against Agathon, so to speak,
that Alcibiades' language is rubbing

But what of the language that we use when talking of other things? Is only the lover's language a skin that trembles with hidden desire, or is this also true of other types of language? Barthes does not tell us, leaving us to consider the idea for ourselves.

Roland Barthes



Barthes was born in Cherbourg, France, in 1915. He attended the University of Sorbonne in Paris from 1935, graduating in 1939, but by this time he had already contracted the tuberculosis that would afflict him for the remainder of his life. His illness made it difficult to acquire teaching qualifications, but it exempted him from military service during World War II. After the war, having finally qualified as a teacher, he taught in France, Romania, and Egypt. He returned to live in France full time in 1952, and there started to write the pieces that were collected together and

published under the title Mythologies in 1957

Barthes' reputation grew steadily through the 1960s, in France and internationally, and he taught both at home and abroad. He died at the age of 64, when he was run over by a laundry van after lunching with President Mitterrand.

Key works

1957 Mythologies 1973 The Pleasure of the Text 1977 A Lover's Discourse



HOW WOULD WE MANAGE WITHOUT A CULTURE? MARY MIDGLEY (1919-)

IN CONTEXT

BRANCH
Philosophy of science

APPROACH
Analytic philosophy

BEFORE

4th century BCE Anstotle defines human beings as "political animals", suggesting that not only are we natural beings, but that the creation of culture is a part of our nature

1st century see Roman poet Titus Lucretius Carus writes On the Nature of the Universe, exploring the natural roots of human culture

1859 Naturalist Charles Darwin
publishes On the Origin of Species,
arguing that all life has evolved
through a process of natural selection

AFTER

1980s onward Richard Dawkins and Mary Midgley debate the implications of Darwinism for our view of human nature.

n her book Beast and Man, published in 1978, the British philosopher Mary Midgley assesses the impact the natural sciences have on our understanding of human nature. It is often claimed that the findings of the sciences, particularly those of palaeontology and evolutionary biology,

• We mistakenly out ourselves off from other animals, trying not to believe we have an animal nature.

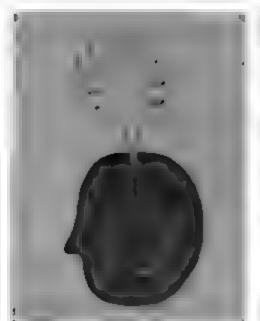
Mary Midgley



undermine our views of what it is to be human. Midgley wants to address these fears, and she does so by stressing both the things that set us apart from other animals and the things that we share with the rest of the animal kingdom

One of the questions that she tackles is that of the relationship between nature and culture in human life. Her concern is to address the fact that many people see nature and culture as somehow opposed, as if culture is something non-natural that is added onto our animal natures.

Midgley disagrees with the idea that culture is something of a wholly different order to nature. Instead, she wants to argue that culture is a natural phenomenon. In other words, we have evolved to be the kinds of creatures who have cultures. It could be said that we spin culture as naturally as spiders spin webs. If this is so, then we can no more do without culture than a spider can do without its web: our need for culture is both innate and natural in this way, Midgley hopes both to account for human uniqueness, and also to put us in the larger context of our evolutionary past.



NORMAL SCIENCE DOES NOT AIM AT NOVELTIES OF FACT OR THEORY

THOMAS KUHN (1922-1996)

IN CONTEXT BRANCH Philosophy of science APPROACH History of science BEFORE ... 1543 Nicolaus Copernicus publishes the Revolutions of the Heavenly. the formation of the first of t . r. view of the solar system the fast by an a market form office. ALTER 1975 Far Francisco Switzer Art of Atom of a town of a popular or and a 1 1 5 57. 1976 とかっと ロッジッとという Labour in the right to partie to be at the parties. " a s to at a ser agreet that A da A to

merican physicist and historian known for his book The Structure of Scientific Revolutions, published in 1962. The book is both an exploration of turning points in the history of science and an attempt to set out a theory of how revolutions in science take place

Today Harris Hotel, putst the of

year for the state of a first

I find It a different of the world



Coperatous's claim that Earth orbits the Sun was a revolution in scientific thinking. It led to scientists abandoning the belief that our planet is at the center of the universe.

Paradigm shifts

Science, in Kuhn's view, alternates between periods of normal science" and periods of "crisis." Normal science is the foutine process by which scientists working within a theoretical frameworkor "paradigm"—accumulate results that do not ca., the theoretical underpinnings of their framework into question Sometimes, of course anomalous, or aniamiliar, results are encountered, but these are usually considered to be errors on the part of the scientists concernedproof, according to Kuhn, that normal science does not aim at novelties. Over time, however, anomalous results can accumulate until a crisis point is reached. Following the crisis, if a new theory has been formulated, there is a shift in the paradigm, and the new theoretical framework replaces the old Eventually this framework is taken for granted and normal science resumesuntil further anomalies arise. An example of such a shift was the shattering of the classical view of space and time following the confirmation of Einstein s theories of relativity



THE PRINCIPLES OF JUSTICE ARE CHOSEN BEHIND A VEIL OF IGNORANCE

JOHN RAWLS (1921-2002)

IN CONTEXT

BRANCH

Political philosophy

APPROACH

Social contract theory

BEFORE

c.380 scr Plato discusses the nature of justice and the just society in The Republic.

1651 Thomas Hobbes sets out a theory of social contract in his book Leviathan.

1689 John Locke develops
Hobbes's theory in his Second
Treatise of Government.

1762 Jean-Jacques Rousseau writes
The Social Contract. His views are later
adopted by French revolutionaries.

AFTER

1974 Robert Nozick criticizes Rawls' "original position" in his influential book Anarchy, State, and Utopia.

2001 Rawls defends his views in his last book, *Justice as Fairness:* A Restatement.

n his book A Theory of Justice first published in 1971, political philosopher John Rawls argues for a re-evaluation of justice in terms of what he calls "justice as fairness." His approach falls into the tradition known as social contract theory,

We all want to further our own interests

To do this we need to work together

This requires rules

Rules that are fair and just must apply equally to all, ignoring social status

The principles of justice should be chosen behind a yell of ignorance.

which sees the rule of law as a form of contract that individuals enter into because it yields benefits that exceed what they can attain individually. Rawls version of this theory involves a thought experiment in which people are made ignorant of their place in society, or placed in what he calls the "original position" in which the social contract is made. From this Rawls establishes principles of justice on which, he claims, all rational beings should agree

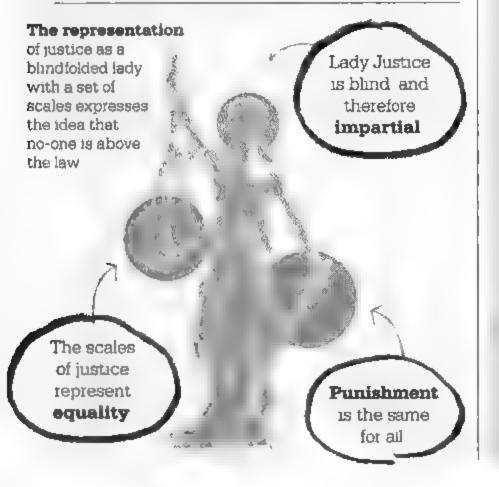
The original position

Imagine that a group of strangers is marooned on a desert island, and that, after giving up hope of being rescued, they decide to start a new society from scratch. Each of the survivors wants to further their own interests, but each also sees that they can only do so by working together in some way—in other words, by forming a social contract. The question is how do they go about establishing the principles of justice? What rules do they lay down? If they are interested in a truly rational and impartial justice, then there are countless rules that have to be discounted immediately. For example, the rule "If your name is John, you must always eat last" is neither rational nor impartial, even if it may be to your advantage if your name is "John"

In such a position, says Rawls, what we need to do is cast a "veil of ignorance" over all the facts of our lives, such as who we are, and where we were born, and then ask what kind of rules it would be best for us to live by Rawls' point is that the only rules that could rationally be agreed on by all parties are ones that genuinely honor impartiality, and don't, for example, take race, class, creed, natural talent, or disability into account. In other words, if I don't know what my place in society will be, rational self interest compels me to vote for a world in which everyone is treated fairly

Rationality versus charity

It is important to note that for Rawls this is not a story about how justice has actually arisen in the world. Instead, he gives us a way of testing our theories of justice against an impartial benchmark. If they fail to measure up, his point is that it is our reason, and not simply our charity, that has failed.





John Rawis

John Rawls was born in 1921 in Maryland, USA. He studied at Princeton University, then joined the army and served in the Pacific during World War II. After the war, in which he saw the ruins of Hiroshima, he resigned from the army and returned to studying philosophy, earning his PhD from Princeton in 1950.

Rawls undertook further study at Oxford University, where he met philosopher Isaiah Berlin, before returning to the US to teach. After a period at Cornell and MIT, he moved to Harvard, where he wrote A Theory of Justice. While at Harvard, he also taught up-and-coming philosophers Thomas Nagel and Martha Nussbaum.

In 1995 Rawls suffered the first of several strokes, but continued working until his death in 2002.

Key works

1971 A Theory of Justice 1993 Political Liberalism 1999 The Law of Peoples 2000 Lectures on the History of Moral Philosophy 2001 Justice as Fairness: A Restatement



FOR THE BLACK MAN, THERE IS ONLY ONE DESTINY AND IT IS WHITE

FRANTZ FANON (1925-1961)

IN CONTEXT

BRANCH

Political philosophy

APPROACH

Existentialism

BEFORE

4th century scr Aristotle argues in the Nicomachean Ethics that slavery is a natural state

19th century Africa is partitioned and colonized by European countries.

1930s The French négritude movement calls for a unified black consciousness.

AFTER

1977 Steve Biko, an anti-apartheid activist inspired by Fanon, dies in police custody in South Africa:

1978 Edward Said, influenced by Fanon's work, writes Orientalism, a post-colonial study of Western perspectives on the Middle East in the 19th century.

hilosopher and psychiatrist
Frantz Fanon first published
his psychoanalytic study of
colonialism and racism, Black Skin,
White Masks, in 1952 In the book Fanon
attempts to explore the psychological and
social legacy of colonialism among nonwhite communities around the world

White colonial cultures equate
"blackness" with inferiority

Colonized people want to escape
from this "inferior" position

Colonized people start
to take on the assumed
superiority of colonial cultures

The only escape is
to reject "blackness"

For the black man
there is only one
destiny, And it is white.

In saying that 'for the black man, there is only one destiny", and this destiny is white, Fanon is saying at least two things. First, he says that "the black man wants to be like the white man", that is, the aspirations of many colonized peoples have been formed by the dominant colonial culture. European colonial cultures tended to equate "blackness" with impurity, which shaped the self-view of those who were subject to colonial rule, so that they came to see the color of their skin as a sign of inferiority

The only way out of this predicament seems to be an aspiration to achieve a "white

existence", but this will always fail, because the fact of having dark skin will always mean that one will fail to be accepted as white For Fanon, this aspiration to achieve a white existence" not only fails to address. racism and inequality, but it also masks or even condones these things by implying that there is an "unarquable superiority to white existence

At the same time Fanon is saving something more complex. It might be thought that, given this tendency to aspire to a kind of "white existence", the solution would be to argue for an independent view of what it means to be black. Yet this too, is subject to all kinds of problems. Elsewhere in his book, Fanon writes that "the black man's soul is a white man's artefact. In other words the idea of what it means to be black is the creation of patterns of fundamentally racist European thought

Here Fanon is, in part, responding to what was known in France as the negritude (or blackness") movement. This was a movement. of French and French-speaking black writers from the 1930s who wanted to reject the racism and colonialism of mainstream French culture, and argued for an independent, shared black culture But Fanon believes that this idea of négritude is one that fails

to truly address the problems of racism that it seeks to overcome, because the way that it thinks about "blackness" simply repeats the fantasies of mainstream white culture

Human rights

In one sense, Fanon believes that the solution can only come when we move beyond racial thinking that if we remain trapped within the idea of race we cannot ever address these injustices. "I find myself in the world and I recognize that I have one right alone. Fanon writes at the end of his book, "that of demanding human behavior from the other " Fanon's thought has been of widespread importance in anti-colonial and anti-racist movements, and has influenced social activists such as antiapartheid campaigner Steve B.ko and scholars such as Edward Said .



The inferiority associated with being black led many colonized people to adopt the "mother country's cultural standards" says Fanon, and even to aspire to a "white existence."

Frantz Fanon

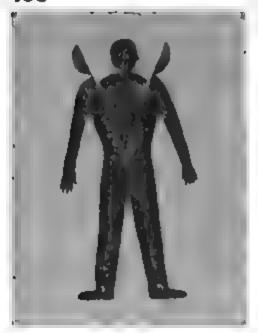
Frantz Fanon was born in 1925 in Martimque e Carubbean island that was at that time a French colony. He left Martinique to fight with the Free French Forces in World War II, after which he . studied both medicine and paychistry in Lyon France. He also attended lectures on literature and phaseophy including those given by the philoscopher Merlesu Ponty The young Fanon had thought of himself as French, and the recism he encountered on first entering France surprised him It pasyed a house role in shaping his philosophy and one year after qualifying as a psychiatrist in 1951, he published his book Black Skin, White Masks.

In 1953 Fanon moved to Alderia where he worked as a hospital psychiatrist. After two years of hearing his patients' tales of the torture they endured during the 1344 62 Algerian Wat of the Independence, he resigned his government-funded post, moved to Tunisia, ** and began working for the Akierian independence movement. In the late 195th: he developed leukemia.During his 🐃 📜 🥕

diness he wrote his final book. The Wretched of the Earth arguing for a different world: It was published in the year of his death with a preface by Jean-Paul Sartre, a friend who had first influenced Fanon, then been influenced by him

Key weeks

1952 Black Skin, White Masks 1959 A Dying Colonialism ... 1961 The Wretched of the barth 1969 Toward the African Revolution (collected short works)



MAN IS AN INVENTION OF RECENT DATE

MICHEL FOUCAULT (1926-1984)

IN COMPERT

BRANCH

Epistemology

APPROACH

Discursive archaeology

BEFORE

Late 18th century Immanuel Kant lays the foundation for the 19th-century model of "man"

1859 Charles Darwin's On the Origin of Species causes a revolution in how we understand ourselves.

1883 Friedrich Nietzsche, in Thus Spoke Zarathustra, announces that man is something to be surpassed.

AFTER

1985 American philosopher
Donna Haraway's A Cyborg
Manifesto attempts to imagine
a post-human future.

1991 Damel Dennett's Consciousness Explained calls into question many of our most cherished notions about consciousness.

he idea that man is an invention of recent date appears in The Order of Things An Archaeology of the Human Sciences by French philosopher Michel Foucault. To understand what Foucault means by this, we need to know what he means by

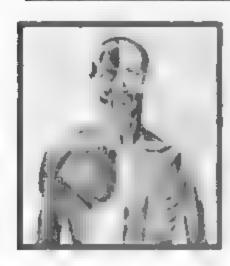
We treat the idea of 'man' or humankind as if it is a **natural** and **oternal** idea

But an archaeology of our thinking shows that the idea of "man" arose as an object of study at the beginning of the 19th century

Man is an invention of recent date.

archaeology, and why he thinks that we should apply it to the history of thought

Foucault is interested in how our discourse the way in which we talk and think about things—is formed by a set of largely unconscious rules that arise out of the historical conditions in which we find ourselves. What we take to be the "common sense" background to how we think and talk about the world is in fact shaped by these rules and these conditions However, the rules and conditions change over time, and consequently so do our discourses For this reason, an "archaeology" is needed to unearth both the limits and the conditions of how people thought and talked about the world in previous ages We cannot take concepts that we use in our present context (for example the concept of "human nature") and assume that they are somehow eternal, and that



The 19th century saw a revolution in anatomy, as shown in this iliustration from a medical text book Foucault believes that our modern concept of man dates from this period

all we need is a "history of ideas" to trace their genealogy For Foucault it is simply wrong to assume that our current ideas can be usefully applied to any previous point in history. The ways in which we use the words "man", "mankind" and "human nature". Foucault beheves are examples of this

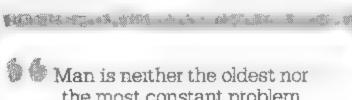
The roots of this idea lie firmly in the philosophy of Immanuel Kant, who turned philosophy on its head by abandoning the old question "Why is the world the way it is?" and asking "Why do we see the world the way we do?" We take our idea of what it is to be human as fundamental and unchanging, but it is in fact only a recent invention. Foucault locates the beginning of our particular idea of "man" at the beginning of the 19th century, around the time of the birth of the natural sciences. This idea of "man is Foucault considers

paradoxical we see ourselves both as objects in the world, and so as objects of study, and as subjects who experience and study the world—strange creatures that look in two directions at once

The human self-image

Foucault suggests that not only is this idea of "man" an invention of recent date. it is also an invention that may be close to coming to its end-one that may soon be erased like a face drawn in the sand at the edge of the sea.

Is Foucault right? In a time of rapid advances in computing and human machine interfaces, and when philosophers informed by cognitive science, such as Daniel Dennett and Dan Wegner are questioning the very nature of subjectivity, it is hard not to feel that, even if the face in the sand is not about to be erased, the tide is lapping alarmingly at its edges •



the most constant problem that has been posed for human knowledge

Michel Foucault 🚳 🦚



Michel Foucault



Foucault was born in Poitiers, France, in 1926 to a family of doctors After World War II he

entered the École Normale Supérieure, where he studied philosophy under Maurice Merleau-Ponty In 1954 he spent time in Uppsala, Sweden. and then lived for a time both in Poland and Germany, only returning to France in 1960.

He received a PhD in 1961 for his study A History of Madness, which argued that the distinction between madness and sanity is not real, but a social construct. After the month-long student strikes in Paris of 1968 he became

involved in political activism, and continued to work both as a lecturer and an activist for the rest of his life.

Key works

1961 A History of Madness 1963 The Birth of the Clinic An Archaeology of Medical Perception 1966 The Order of Things An Archaeology of the Human Sciences 1975 Discipline and Punish. The Birth of the Prison



EVERY DESIRE HAS A RELATION TO MADNESS

LUCE IRIGARAY (1932-)

IN CONTEXT

BRANCH

Political philosophy

APPROACH

Feminism

BEFORE

1792 Mary Wollstonecraft's

A Vindication of the Rights of Woman
first initiates serious debate about the
place of women in society

1890s Austrian psychologist
Sigmund Freud establishes his
psychoanalytic method, which will
greatly influence Ingaray's work

1949 Simone de Beauvoir's The Second Sex explores the implications of sexual difference

AFTER

1993 Luce Ingaray turns to non-Western modes of thought about sexual difference in An Ethics of Sexual Difference.

analyst Luce Ingaray is concerned above all else with the idea of sexual difference. A former student of Jacques Lacan, a psychoanalyst who famously explored the linguistic structure of the unconscious, Irigaray claims that all language is essentially masculine in nature

In Sex and Genealogies (1993) she writes. "Everywhere, in everything, men's speech, men's values, dreams, and desires are law." Ingaray's feminist work can be seen as a struggle to find authentically female ways of speaking and desiring that are free from male-centeredness.

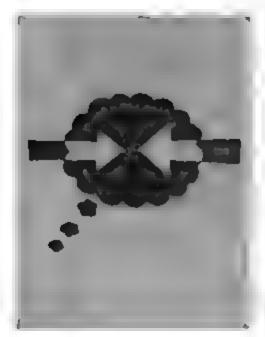
Wisdom and desire

To address this problem. Ingaray suggests that all thinking—even the most apparently sober and objective-sounding philosophy, with its talk of wisdom, certainty, rectitude, and moderation—is underpinned by desire. In failing to acknowledge the desire that underpins it, traditional male-centered philosophy has also failed to acknowledge that beneath its apparent rationality simmer all manner of irrational impulses.

Irigaray suggests that each sex has its own relationship to desire, and as a result each sex has a relation to madness. This calls into question the long tradition of equating maleness with this rationality and femaleness with irrationality. It also opens the way to the possibility of new ways of writing and thinking about philosophy, for both men and women.

One must assume the feminine role deliberately

Luce Irigaray 🐞



THOUGHT HAS ALWAYS WORKED BY OPPOSITION

HELENE CIXOUS (1937-)

IN CONTEST

BRANCH

Epistemology

APPROACH .

Feminism

BEFORE

1949 Simone de Bernito i S The Second Sex explores the philosophical implications of sexual difference

1962 French anthropologist Claude Lévi-Strauss writes The Savage Mind, a study of binary oppositions in culture

1967 Controversial French
philosopher Jacques Derrida publishes
Of Grammatology Introducing the
concept of deconstruction, which
Cixous uses in her study of gender

AFTER

1970s The French literary movement of & nture féminine ("womer, s whiting") explores appropriate use of language in feminist thanking taking its inspiration from Cixous

playwright, and philosopher Héiène
Cixous wrote Sorties, her influential
exploration of the oppositions that often
define the way we think about the world. For
Cixous, a thread that runs through centuries
of thought is our tendency to group elements
of our world into opposing pairs, such as

culture/nature, day/night, and head/
heart. Cixous claims that these pairs of
elements are always by implication ranked
hierarchically underprined by a tendency
to see one element as being dominant or
superior and associated with maleness
and activity, while the other element or
weaker aspect is associated with
femaleness and passivity

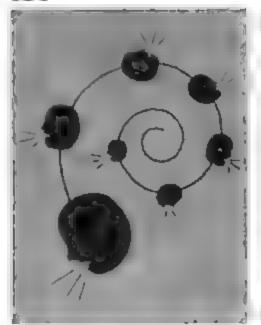
Time for change

Cixous believes that the authority of this hierarchical pattern of thinking is now being called into guestion by a new blossoming of feminist thought. She questions what the implications of this change might be, not only for our philosophical systems, but also for our social and political institutions Cixous herself, however, refuses to play the game of setting up binary oppositions, of victors and losers, as a structural framework for our thinking Instead she conjures up the image of "millions of species of mole as yet not recognized", tunnelling away under the edifices of our world view. And what will happen when these edifices start to crumble? Cixous does not say It is as if she is telling us that we can make no assumptions, that the only thing we can do is wait and see

Woman must write herself and bring woman into literature







SOCIETY IS DEPENDENT UPON A CRITICISM OF ITS OWN TRADITIONS

JURGEN HABERMAS (1929-)

IN CONTEXT

BRANCH
Political philosophy

APPROACH
Social theory

BEFORE

1789 The French Revolution begins, marking the end of a "representational" power structure in France

1791 Jeremy Bentham writes Of Publicity, an early exploration of the idea of the "public".

1842 Karl Marx writes his essay On Freedom of the Press.

AFTER

1986 Edward Said criticizes
Habermas and the Frankfurt School
for their Eurocentric views and their
silence on racist theory and
imperialism.

1999 Canadian author Naomi Kleim's No Logo explores the fate of the public sphere in an era dominated by advertising and the mass media

philosopher Jurgen Habermas, modern society depends not only on technological advances, but also upon our ability to criticize and reason collectively about our own traditions.

Reason, says Habermas, lies at the heart of

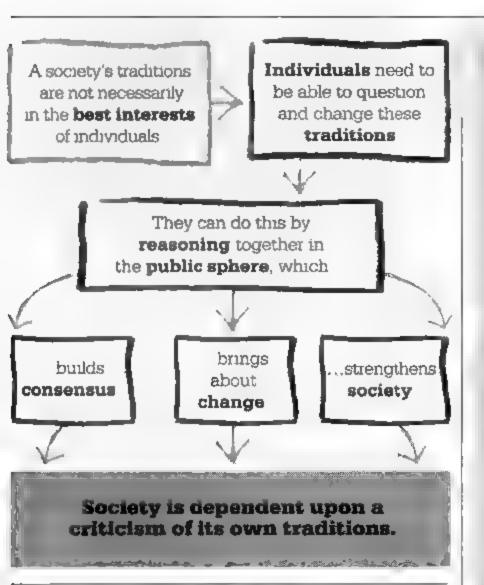
our everyday communications Somebody says or does something, and we say, "Why did you do that?" or "Why did you say that?" We continually ask for justifications, which is why Habermas talks about "communicative" reason. Reason, for him is not about discovering abstract truths, but about the need we have to justify ourselves to others.

Creating a public sphere

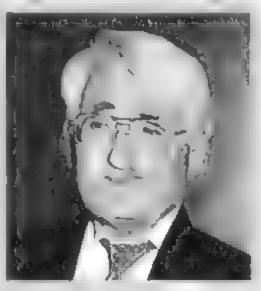
In the 1960s and 1970s, Habermas concluded that there was a link between communicative reason and what he calls the "public sphere". Up until the 18th century, he states, European culture was largely "representational", meaning that the ruling classes sought to "represent" themselves to their subjects with displays of power that required no justification, such as impressive pageants or grand architectural projects. But in the 18th century, a variety of public spaces emerged that were outside state control, including



Coffee houses became a focus of social and political life in the major cities of 18th-century Europe. Noted as places where "the dissaffected met", attempts were frequently made to close them.



hterary salons and coffee houses. These were places where individuals could gather to engage in conversation or reasoned debate. This growth of the public sphere led to increased opportunities to question the authority of representational state culture The public sphere became a "third space", a buffer between the private space of our immediate friends and family and the space occupied by state control By establishing a public sphere, we also open up more opportunities for recognizing that we have interests in common with other private individuals – interests that the state may fail to serve. This can lead to questioning the actions of the state Habermas believes that the growth of the public sphere helped to trigger the French Revolution in 1789 The expansion of the public sphere, from the 18th century onwards has led to a growth of democratically elected political institutions, independent courts, and bills of rights. But Habermas believes that many of these brakes on the arbitrary use of power are now under threat Newspapers, for example, can offer opportunities for reasoned dialogue between private individuals, but if the press is controlled by large corporations, such opportunities may diminish Informed debate on issues of substance is replaced with celebrity gossip, and we are transformed from critical rational agents into mindiess consumers



Jürgen Habermas

Jurgen Habermas grew up in Germany under the Nazı regime. His realization that "we had been living in a criminal system", following the Nuremburg trials (1945-46), was to have a lasting effect on his philosophy.

On completing has doctorate in 1954, he studied with members of the Frankfurt School, including Max Horkheimer and Theodor Adorno, During the 1960s and 1970s, he lectured at universities in Bonn and Gottingen. In 1982, he became Professor of Philosophy at the University at Frankfurt, where he taught until his retirement in 1993. More recently, Habermas has himself taken an active role in the public sphere, entering into debates on Holocaust denial and global terrorism.

Key works

1962 The Structural Transformation of the Public Sphere 1981 The Theory of Communicative Action 1985 The Philosophical Discourse of Modernity 2005 Between Naturalism and Religion



THERE IS NOTHING DEEP DOWN INSIDE US EXCEPT WHAT WE HAVE PUT THERE OURSELVES

RICHARD RORTY (1931-2007)

IN CONTEST

BRANCH

Ethics

APPROACH

Pragmatism

BEFORE

5th century acr Socrates disputes the nature of justice, goodness, and other concepts with the citizens of Athens.

4th century ace Aristotle writes a treatise on the nature of the soul

1878 Charles Sanders Peirce coins the term "pragmatism."

1956 American philosopher Wilfrid Sellars publishes Empiricism and the Philosophy of Mind, calling into question the "myth of the given."

AFTER

1994 South-African-born philosopher John McDowell publishes Mind and World, a book strongly influenced by Rorty's work.

he soul is a curious thing Even
if we cannot say much about our
souls or describe what a soul is
like, many of us nonetheless hold firmly
to the benef that, somewhere deep down,
we each have such a thing. Not only this,
we might claim that this thing is the
fundamental self ("me") and, at the
same time, is somehow connected
directly with the truth or reality

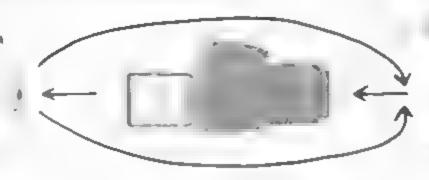
The tendency to picture ourselves as possessing a kind of "double"—a soul or a deep self that "uses Reality's own language"—is explored by American philosopher Richard Rorty in the introduction to his book. The Consequences of Pragmatism (1982) Rorty argues that to the extent that we have such a thing at all, a soul is a human invention; it is something that we have put there ourselves.

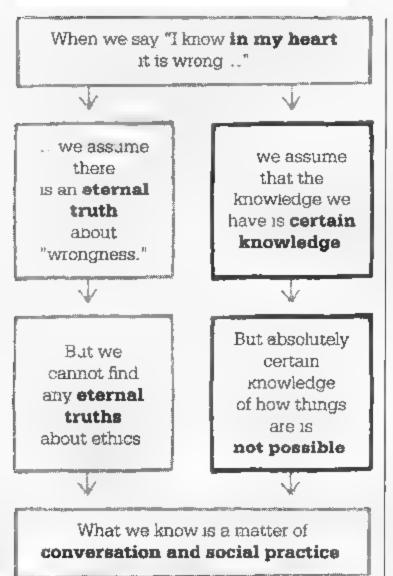
Knowledge as a mirror

Rorty was a philosopher who worked within the American tradition of pragmatism. In considering a statement, most philosophical traditions ask "is this true?" in the sense of: "does this

Some theories of knowledge

claim that we gain knowledge by processing "raw data" like a camera captures light, but Rorty says our perceptions are tangled up with our beliefs, which we impose on things in the world





There is nothing deep down inside us except what we have put there ourselves.

correctly represent the way things are?"
But pragmatists consider statements in quite a different way, asking instead "what are the practical implications of accepting this as true?"

Rorty's first major book, Philosophy and the Mirror of Nature, published in 1979, was an attempt to argue against the idea that knowledge is a matter of correctly representing the world, like some kind of mental mirror. Rorty argues that this view of knowledge cannot be upheld, for two reasons. First, we assume that our experience of the world is directly "given" to us—we assume that what we experience is the raw data of how the world is. Second, we assume that once this raw data has been collected, our reason (or some other faculty of mind) then starts to work on it, reconstructing

how this knowledge fits together as a whole, and mirroring what is in the world

Rorty follows the philosopher Wilfrid Sellars in claiming that the idea of experience as "given" is a myth. We cannot ever access anything like raw data—it is not possible for us to experience a dog, for instance, outside of thought or language. We only become aware of something through conceptualizing it, and our concepts are learned through language. Our perceptions are therefore mextricably tangled up with the habitual ways that we use language to divide up the world.

Rorty suggests that knowledge is not so much a way of mirroring nature as "a matter of conversation and social practice." When we decide what counts as knowledge, our judgement rests not on how strongly a "fact" correlates to the world, so much as whether it is something "that society lets us say." What we can and cannot count as knowledge is therefore limited by the social contexts that we live in, by our histories, and by what those around us will allow us to claim. "Truth," said Rorty, "is what your contemporaries let you get away with saying."

Reasons for judgement

But does truth really reduce down to a matter of what we can get away with? Rorty is aware that there are some disturbing implications here especially in questions of ethics Imagine, for instance, that I kidnap my neighbor's pet hamster and subject it to all manner of cruel tortures, simply for the fun of hearing it squeak. We might all agree that doing such a thing to the poor hamster (or, for that matter, doing such a thing to my neighbor) is a morally blameable act We might claim that there is something absolutely and fundamentally wrong about doing such a thing to another living being, and we might all agree that we ought not let other people get away with such things

But when we look at the reasons that we give for saying that this is a morally blameable act, things become interesting »



Using children as soldiers may seem intrinsically wrong but Rorty says there are no ethical absolutes. Ethics is a matter of doing our best, in solidarity with others, to realize a better world.

For example, imagine that you are asked by a particularly awkward moral philosopher why it is wrong to treat hamsters (or horses, or humans) in this way. At first you might suggest all manner of reasons. But philosophy being what it is, and moral philosophers being the kinds of beings they are, you might find that for every reason you can think of, your philosopher friend has a counter reason or leads you into some kind of contradiction.

This is, in fact precisely what the philosopher Socrates did in ancient Athens Socrates wanted to find out what concepts such as "goodness" and "justice" really were so he questioned people who used these concepts, to find out whether they really knew what these things were As the dialogues of Plato show, most of the people Socrates taiked to were surprisingly unclear about what it was they were actually talking about, despite their earlier conviction that they fully grasped the relevant concepts. In the same way, after an hour or two of being interrogated by a

What sort of a world can we prepare for our great-grandchildren?

modern-day Secrates about how to treat hamsters, you might blurt out in frustration the following sentence. "But I just know in my heart of hearts that it is wrong!"

My heart of hearts

We say or think this kind of thing relatively frequently, but it is not immediately clear what exactly we mean. To examine the idea more closely we can break it down into three parts. First, it seems that when we say "I know, in my heart of hearts, that it is wrong", we are speaking as if there is something out there in the world that is "wrongness", and that this thing is knowable. Or, as some philosophers put it we are speaking as if there is an essence of "wrongness" to which this particular instance of wrongness corresponds

Second, by saying that we just "know" in our heart of hearts, we imply that this mysterious entity —our "heart of hearts"—is a thing that, for reasons unknown, has a particular grasp of truth

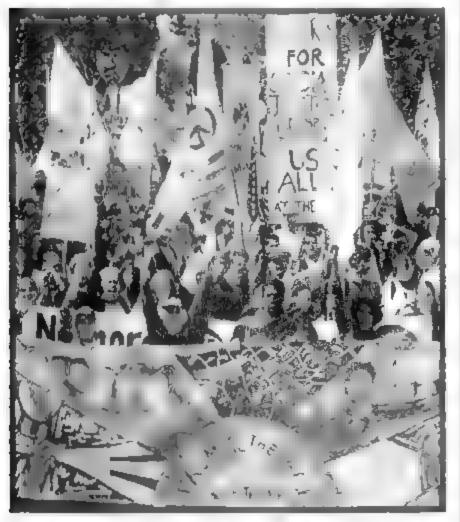
Third, we seem to be speaking as if there is a straightforward relationship between our "heart of hearts" and this "wrongness" that lies out there in the world, such that if we know something in our heart of hearts we can have access to an absolutely certain kind of knowledge. In other words, this is just another version of the idea that knowledge is a way of mirroring the world. And this, Rorty believes, is unacceptable.

A world without absolutes

In order for his beliefs to be consistent. Rorty has to give up on the idea of fundamental moral truths. There can be no absolute right or wrong if knowledge is "what society lets us say." Rorty recognizes that this is a difficult thing to accept. But is it necessary to believe that on doing something morally

wrong you are betraying something deep within you? Must you believe that there is "some truth about life. or some absolute mora, law that you are violating 'inorder to maintain even a shred of human decency? Rorty thinks not. He maintains that we are finite beings, whose existence is limited to a short time on Earth, and none of us have a hothne to some deeper, more fundamental moral truth. However, this does not imply that the problems of life have either gone away or ceased to matter. These problems are still with us, and in the absence of absolute moral laws we are thrown back upon our own resources We are left, Rorty writes, with "our loyalty to other human beings clinging together against the dark " There is no absolute sense of rightness and wrongness to be discovered. So we simply have to hold on to our hopes and loyalties, and continue to participate in involved conversations in which we talk about these difficult issues

Perhaps, Rorty is saying, these things are enough the humility that comes from recognizing that there is no absolute standard of truth, the solidarity we have with others; and our hopes that we may be able to contribute to, and to bequeath to those who come after us, a world that is worth living in



We do not need to believe in an absolute moral law in order to live as ethical beings. Conversation, social hope and solidarity with others allow us to form a working definition of "the good"



Richard Rorty

Richard Rorty was born in New York, USA in 1931. His parents were political activists, and Rorty describes his early years as being spent reading about Leon Trotsky, the Russian revolutionary He said that he knew by the age of 12 that "the point of being human was to spend one's life fighting social injustice." He began attending the University of Chicago early, at the age of 15, going on to take a PhD at Yale in 1956. He was then drafted into the army for two years, before becoming a professor. He wrote his most important book, Philosophy and the Mirror of Nature, while professor of philosophy at Princeton. He wrote widely on philosophy, literature, and politics and unusually for a 20th-century philosopher, drew on both the so-called analytic and the continental traditions. Rorty died of cancer aged 75.

Key works

1979 Philosophy and the Mirror of Nature 1989 Contingency, Irony, and Solidarity 1998 Achieving Our Country 1999 Philosophy and Social Hope

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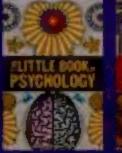
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